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This new RCA WHIRLPOOL 2 -speed washer automatically controls washing time, temperature and agitation. It washes delicate things gently, at low speed; does heavier things at a brisk high speed! And, for heavily soiled clothes, this new RCA WHIRLPOOL washer gives you Super-Wash . . . a special new cycle
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OUR COVER Our sunny house is proof you can achieve a feeling of space in a small house. Shown: the two-story living room and conversation area in the home of architect Donald Goodhue. More on page 29. Photo: Lyman Emerson.

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## DEAR READER:

One of the more depressing bits of information that has come across our cluttered desk is a recent survey which reports that the most popular eating occasion for Americans today is the snack!
Now don't get us wrong, we have nothing against snacks. We eat them and we enjoy them, but they have a long way to go before they become our most popular eating occasion. In fact, we have never even considered a snack to be any sort of an occasion!
A snack is by its very nature either a makeshift or an indulgence. It is something to eat when you're on the run or because you decide you need a little something extra. You rummage around inside the refrigerator until you find something you like, and then you eat it, usually alone. This is fine at certain times but can it compare with a shared Sunday breakfast or brunch? A family lunch or evening meal? In our books it can't.
Our guess is that snacks are popular because people are too busy in a pursuit of "fun" or too engrossed in their own affairs to share a meal with their family. If our guess is correct the popularity of the snack is really due to the fact that not enough people are home at the same time to participate in a meal.

This is not our cup of tea. We'll continue to have snacks but our most popular eating occasion is the evening meal when there is the time and opportunity for good conversation, when one can shower the cook with compliments, talk over the happenings of the day, and where there is warmth, relaxation, and that special feeling of contentment one gets when the family is around the same table breaking bread.

## Ohio family reports on flameless electricity

## "We never knew what real living comfort was like until we moved into our new total electric home"

Mr. and Mrs. Richard A. Schultz of Atwater, Ohio, talk about the joy of total electric living in a modern Gold Medallion Home. Here flameless electricity does everything including heating and cooling the whole house, cooking the food, providing the hot water and drying the family clothes

According to Richard and Dolores Schultz, moving into a new Gold Medallion Home was "like having a life-long dream suddenly come true."
"We've been here almost five years now," Dick Schultz tells you, "and my only regret is that we didn't learn about total electric living sooner. As for myself, I can't imagine anything else that could make so big a difference in home comfort and convenience-especially at so reasonable a cost."
"I agree with Dick completely," says his wife, Dee. "Until you've lived in one yourself, you just can't imagine how pleasant it is to have a home where everything keeps so clean and
fresh-looking the whole year round with so little work-or where there are so many modern appliances to help you take better care of your family. And I think electric heat is wonderful! For the first time now our whole house stays really comfortable in the winter, and there are just never any cold spots or drafts, or annoying hot blasts of heat.
"I suppose the best way to sum it all up," she adds, "is this: I know I just wouldn't want to live any other way now that I've found out how enjoyable total electric living is!"

Dick and Dee Schultz' candid opinions about the joy of total electric living are being shared every day by more and more families all across America. If you are planning to build, buy or modernize, think about the advantages of a total electric Gold Medallion Home for your own family. Your local electric utility company will help you get all the information you need to enjoy this truly modern way of life.


BECAUSE IT WORKS WITHOUT A FLAME, the Schultzes' electric water heater needs neither flue nor ventilation. This allowed the Schultzes to save valuable basement floor space by installing it in a windowless storage area.
"A FLAMELESS ELECTRIC CLOTHES DRYER is certainly a blessing with a family as large as mine," reports Dee Schultz. "And I like its simple, trouble-free operation." Here little Randy provides a helping hand by making sure that all of the freshly dried clothes are properly placed in his mother's laundry basket.
"WE'VE NEVER ENJOYED any house we've had as much as we do our new total electric home," says Dee Schultz, shown in the living room with her husband Dick and sons Dale, 5, Randy, 2, and Jim, 15. "Everything in it-from heating to lighting to location of switches and outletsadds to our comfort and convenience."

"A MODERN ELECTRIC RANGE is so fast and easy to cook on that now everyone in my family likes to help out occasionally," says Dee Schultz. "And because it's flameless, it really does help to keep my kitchen clean and cool."


FULL HOUSEPOWER WIRING in the Schultz home makes sure that there are a sufficient number of circuits and conveniently placed outlets to handle every electrical demand. "Now I can run as many appliances as I want to all at one time-and everything still works the way it should," says Dee Schultz as she fixes breakfast in the downstairs family room.


When you stop to think of it. . . isn't it a little silly of you not to be using Tampax internal sanitary protection?

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now used by millions of women


RALPH FREAS

## Soldering-iron saga: Building hi-fi from kits mingles triumph and tedium

Are there limits to do-it-yourselfing? Evidently not. A large part of the music-loving public is assembling high-fidelity systems from kits. This is no small thing when you consider the degree of sophistication of today's high-fidelity equipment. And building an amplifier or tuner from the chassis up takes time, patience, and at least a modicum of mechanical aptitude.
Why would anyone devote thirty to fifty hours bolting transformers into place, tracing wiring diagrams, and soldering dozens of tiny elements into a circuit? Economy is only a partial answer. And the kits themselves are only relatively cheap. The stereo-FM receiver we built as background to this column costs $\$ 169.95$, fifty dollars less than the factory-wired Harman-Kardon FA3000. The best way of stating the case is, perhaps, to say that the construction of a hi-fi receiver allows the builder to enjoy very superior quality at a high-but less than superior-price.

Another reason for the popularity of kits is a sense of achievement that goes with ending the job. In a mild burst of hyperbole, manufacturer Sidney Harman once told us that kit building permits the owner to participate in the musical end-result just as Heifetz participates with Bach in the performance of a partita. We wouldn't go that far. There is an undeniable surge of pride that accompanies the first successful operation of a unit, however. And nothing can top telling a neighbor, "I built it myself," in answer to the question, "Whereja get the hi-fi?" Buttons pop all over the living room.
Anyone-except the totally in-ept-can build hi-fi equipment from a kit. To be good at it and to enjoy it thoroughly, certain personal qualities are helpful. Patience, as already mentioned, is more a virtue here than elsewhere. The assembly route requires taking hundreds of tiny steps, many of them repetitive. And, since you'll handle tiny, color-coded elements along the way, good eyesight is essential. Those whose eyes
measure less than $20 / 20$ can rely on a lighted magnifying glass sold specifically for this purpose. Of course, you can't buy patience, but you can substitute doggedness or stiff upper lipness.
For no logical reason, the husband in a family is usually the kit builder. But it's sensible to make a joint husband-wife effort of it. First, the work will go faster. While husband is soldering one connection, wife can select the component for the next step. Second, friend husband will not have to spend 30 , 40 , or 50 sparetime hours in a basement away from the family. Apropos, most kits come in cartons that open to form a convenient worktable. All the parts are bagged, tagged, and held in well-marked packets awaiting their selection at the proper step in the assembly procedure. When a kit-building session ends, the carton folds neatly to be stowed away until the next session. There is no need to take the kit to a basement workshop.
Another reason for a wife's participation is to share in the pride when the unit is finished. This gives an extra fillip to the whole business, we think.
If you've ever had to assemble a back-yard swing or put together some toys before placing them under a Christmas tree, you may have misgivings about tackling an FM-receiver kit. It's understandable. For some reason, the instructions packed with Junior's wagon or toy trains always seem to omit a vitally important step-if not an essential bolt, nut, or screw. But set aside your fears insofar as hi-fi kits are concerned. Their assembly manuals are models of clear exposition. Each step is carefully explained and a series of charts guides you through a seeming labyrinth of resistors, capacitors, transistors, and cables. No matter that you may never have heard of a resistor and couldn't tell one from a variable condenser or a sewing-machine bobbin. You'll soon learn. You'll learn, too, how to identify the difference between a

220 -ohm resistor and one valued at 3.3 ohms , or whatever.
This may sound as if assembling a receiver is akin to taking a course in electronics. Not a bit. It's enough simply to identify and solder a resistor into place. You don't have to know what an ohm is or what the resistor does. If you're curious, however, the instruction manual will answer these and many other questions.
The manual that accompanied our FM-receiver kit, for example, is 108 pages long, not including a flip chart of 25 large-size diagrams. The two are cleverly bound together to allow the manual to lie flat while the chart stands erect. As assembly proceeds, the manual directs you to consult the chart, thus giving you a graphic reference to the written instructions.
Unlike a back-yard swing or a toy wagon, an FM receiver is an expensive instrument. The kit manufacturer wants desperately for it to perform when it's fin-ished-and to perform well; an unsatisfied customer endangers his business. Therefore, the assembly instructions are written not only to be understood but so that they cannot be misunderstood. Before the manual goes to press, many "shakedown" assemblies have taken place with both engineers and the nontechnically-minded following the instructions. The manuals are as carefully checked as the electronic parts that accompany them into your home.
Strict attention to instructions is de rigueur. And the instruction manuals are written with built-in safeguards against goofs. The manual for our stereo-FM receiver uses a simple device: two sets of parentheses. When, for example, the kit builder reads (step No. 7 on page 26), "Connect the black transformer wire to F1-A and solder," he puts a check mark inside one set of parentheses after completing the step. Then he proceeds to Step No. 8. After completing several dozen steps, he reaches the legend "Inspection Point." This is the sign to go back and (continued)

## "I wish

 somebody would invent an oven thats easy to clean"

## in the new Hallmark

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 manship. You've never seen a range like the new -f wid Hotpoint Hallmark. See it at your dealer's now!

## HOW'S THE WATER IN Your hoise?

# Take a bath in broad daylight 

 and have a good look at the water you live with. If the first burst of water is rusty let it run off. Now draw a full tub. Does the water still have a honey-colored tinge? Well, maybe that's why rust spots show up on your linens. You need a Permaglas Water Heater badly. It's glass-lined. You get clean, clear water without a trace of rust. The Permaglas Gas Water Heater, with new Reserve Power Control changes heating speeds to meet your demand, and provides twice as much hot water as the average heater now in use. What's more, it's guaranteed for 10 full years* by A. O. Smith Consumer Products, Kankakee, Illinois.(continued) check through on every step taken since the last inspection point. As each check is made, a check mark is placed inside the second set of parentheses. If this procedure is followed, satisfactory performance is virtually assured.

Good solder connections are essential and the technique for making them is not hard to acquire. The person who has never handled a soldering iron is well advised to spend up to a half hour in practice. Since much of the assembly is soldering, facility with the iron will speed the job along at a rapid clip. In this regard, the constructing manual devotes five pages to a description of good soldering technique. Close attention pays off.

Some of the assembly is child's play and genuine fun. We did, in fact, make child's play of several steps in building our receiver by having our son (age eight) complete them. This involved making a "harness" wire assembly. The wire assembly is a complex array of colored wires from $41 / 2$ to 17 inches in length. The completed assembly is a spidery-looking bundle of bound cable which, when placed properly in the circuit, has every wire in place close to the component to which it will be connected in the circuit.

For his age, Michael is a bright boy-but he's no genius. And even though we might like to think differently, we must admit the truth: any child his age can probably handle the "harness" wire assembly. The procedure is a bit like those yarn drawings we made at Michael's age and younger. You know the kind. They're simply a card with holes punched through and each hole is numbered. The yarn is drawn through one hole after another until a duck, a dog, or some other animal is formed.

So it is with the wires. Step No. 9 of the harness assembly, for example, tells us to place a brown/ white wire $61 / 2$ inches long from hole No. 5 to hole No. 10. When eighteen wires are similarly placed, the group is strapped at specific points to hold them together properly. It doesn't form a duck or a dog but it insures faster assembly and better operation of the finished stereo-FM receiver.

Don't infer from this that the entire assembly lacks complexity or difficulty. Some steps can be absolutely nerve-racking. Thinking back, one of the most trying episodes for us was Step No. 20 on page 46. This required soldering five-count 'em, five-wires to a single terminal. Getting them to stay in the terminal's eyelet before
touching it with a soldering iroh was difficult enough. Poking the iron into the complex of wires without burning off their insulation was something else. And it seemed that just as the connection was made, with the solder flowing nicely overall, one wire would escape and the joint would have to be resoldered. Such are the trials of kit building.

Another hurdle for the beginning kit builder is boredom. By the time page 69 (Final Chassis Wiring) is reached, the wisp of smoke that rises from the soldering iron will hardly seem as perfume to the beginner's nostrils. But at this point, the word "beginner" hardly applies. Regard the underside of the chassis with its complex array of wires and parts. This must be the work of veteran technicians.

But boredom quickly passes after a glance at the now nearempty slots that held the multitude of parts. You'll thumb the manual to see how many steps must be taken to complete the job. And you'll notice that much of what remains is simple mechanical assembly. Interest quickens and excitement mounts. Instead of devoting your usual hour or hour-and-a-half to kit construction, you put in two hours. The goal (Step 17 on page 79) is almost in sight; that step reads, "Tune in a known station. . . ." At that point, you may be forgiven your wild-eyed look and trembling hand. And your cry of "It works!"-even if it rings through the house at 2 A.M.is certainly excusable.
Of course it works. And the thrill of having done it yourself has few equals.
And now, if you've skipped the explanatory text in the manual that told the function of the "ratio detector," the "loudness control," or the "preamplifier tubes," you may want to return to them. You may want to know exactly what it was you put together and how it works. And you may be dissatisfied with not knowing what an ohm is or what a resistor does. It's all there and the knowledge is yours for the taking. This is your bonus for doing it yourself.

Ten years ago, the electronic kit business was dominated by two or three manufacturers. Today, it's a crowded field. You can buy most of the outstanding components either in kit or factory-wired form from Fisher Radio, H. H. Scott, Dynaco, Heath, EICO, Knight (Allied Radio), Lafayette, and others. And remember, finally, kit building is not for men alone; many women are better at it than their husbands!

THE END

(For DeepSilver tablespoons that will soon cost $\$ 3.00$ each!)

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Turn your kitchen into a lively gallery of art with boldly stitched burlap panels. This is no place for namby-pamby colors and itsy-bitsy stitches. Use heavy rug yarns, knitting wools, wrapping and butcher cords, fish line, threads, braids-even bits of thin brass chain whipped down to the background fabric. Here, dramatic designs in the primitive manner were painted with textile paint on bright-colored burlap. They were outlined and shaded with great big untimid stitches-outline, stem, buttonhole, blanket, basket, and French knots.

For your background fabric select heavy slubbed linen or a plain colored rag rug. Try using vibrant hues or choose a restful "no color" ground. You might copy your motif from the print in your kitchen curtains, or find inspiration for designs and stitches at your public library, particularly in books on crewel embroidery. How about a "sampler" of stitches on beautiful linen? Include a sample of every stitch you can think of, using the heaviest cord, yarn, or knitting wool you can find.

Be sure to vary the weights of your thread. If your first efforts lack substance, go over them again and maybe again! Once you've started your collection, we're sure you'll keep adding new works of embroidered art.

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One out of every seven people will spend some time in the hospital this year. A fall on the stairs, in the bathtub or on the sidewalk, a sudden illness or operation, could put you in the hospital for weeks, even months.

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## Half a bath tub tells why...



## Kohler bath tubs look like this for a lifetime

That's a brand new Kohler bath tub pictured above. And the half a Kohler bath tub above it helps show you why Kohler beauty will last and last.

Kohler bath tubs are made of cast iron... rigid, tough, solid. When a bath tub like this is double-coated with the finest enamel, the beauty is there to stay. That's because the shining outer surface you see is fused to the iron itself-
resists cracking, chipping and wearing away.
There are other ways to make bath tubs. But no better ways. So Kohler bath tubs are made of Kohler enamel on cast iron. Made accurately, carefully, and with pride, as all Kohler products have been made for 90 years. We don't know any other way.
Ask your architect or plumbing contractor if it isn't so.

## KOHLER of KOHLER



## WHAT'S "थN", AND WHAT'S "OUTr?

Fashions in wedding presents, like fashions in anything else, change with the years. True, some presents never go out of style-a trip to the Mediterranean or maid service for a year. And custom will never dam the flow of attic-destined monstrosities that are heaped upon newlyweds in the name of something different, or personal, or sentimental. But in the realm of ordinary wedding presents chosen by ordinary friends and acquaintances there are discernible trends. For instance, in the fifties everybody gave candlesticks. In the forties it was monogrammed cocktail shakers and glasses. In the thirties it was bonbon dishes and compotes.

To track down the sixties' trend in wedding presents we first called on Tiffany's, that bulwark of brides than which there is no whicher. Even in this never-never land, the growing informality and maidlessness of the times is beginning to tell. On the skids: massive, elaborately chased silver trays, candelabra, and bowls (too much trouble to clean). Simple, crystal candle holders, on the other hand, are thought much of. Vermeil which, for all its exquisite beauty, needs no care is also in demand. Flatware, in the bride's registered pattern, is still a good choice. But the preference is for "show-off" rather than practical silver, such as cigarette boxes. Then there are amusing items like a silver and velvet pin cushion or a gold thimble. Having heard rumors that chafing dishes were popular, we inquired about them at Tiffany's and were asked in return, "What is a chafing dish?" However, in the interests of elegant at-the-table serving, Tiffany is the proud purveyor of a gleaming silver frying pan.

At Lord \& Taylor's, another favorite mecca of gift hunters, we learned that stainless steel is coming up strong-not only in flatware but also in handsome serving or decorative bowls. (Our young secretary confirms that Danish bowls are being displayed by many brides today.) Accessories for the bar, including ice buckets, rank high as do items for informal entertaining and serving, such as fruit
and salad bowls, oven-to-table casseroles, and ceramic tableware. Pepper mills are very big. Table linens, a classic favorite, now include the bright, breezy world of table mats especially the plastic variety.

Georg Jensen, not surprisingly, finds its Danish stainless in great demand. Here again, the purely ornamental pieces are taking a back seat to the more utilitarian, but equally handsome, cooking and serving dishes. Sleek, sculptured bowls, trays, and buckets in teakwood have also become very popular.
Big, bustling Macy's, New York City, confirms the trend to gifts in tune with today's casual living (although in flatware there seems to be a reactionary hankering for elegance). Dainty little Meissen ash trays are passed over in favor of casseroles for beef bourguignon. Bamboo trays and serving dishes are big hits and, all of a sudden, colored stemware is staging a strong comeback.

At Barker's in Los Angeles, we found the same clamor for strong, vibrant color. Patterned stemware is in vogue, too-while plainer china is preferred. In flatware, the most popular silver patterns have a rose motif, preferably one simple, single, solitary rose. The thrift-minded will find quite respectable Japanese copies of the coveted Danish stainless steel.

Woodward \& Lothrop in Washington, D.C., urges brides to select their everyday "second set" patterns in china and flatware, as well as their choice in cooking wares, bedding, and towels. At Carson, Pirie, Scott in Chicago, even the carriage trade is delighted to receive electrical helpers such as mixers, blenders, can openers, and vacuum cleaners.

Generally speaking, stores throughout the land are ready, willing, and able to help you select a wedding present that will please both the bride and your budget. DON'T TRY TOO HARD. With such a wealth of handsome and functional gifts at hand, it's silly to beat the bushes for some exotic objet d'art that will only end up as a cobweb collector.

JEANNE LAME DיNEHLL

## U

Wonderful ways of using wood are making news in exciting and versatile furniture designs. Under the skilled hands of experts, wood is bent, turned, and carved, resulting in handsome furniture keyed to today's needs.


Bow-back occasional chair of solid ash comes in teak or walnut oil finish. The white Naugahyde cushion is buttoned and tufted. This is a contemporary American piece. $\$ 49.80$. Heywood-Wakefield, Gardner, Mass.


Beautifully finished $16^{\prime \prime}$ cube, which makes a dandy occasional table on its own, is easily separated into six serving tables at the ring of a doorbell. Designed by Danish architect Poul Norreklit, cubes come in teak, walnut, rosewood, or Macassar ebony. \$176. Morredi, 1362 Obispo Avenue, Long Beach 4, Calif.


Carved French Provincial detail makes this 64 -inch-high cabinet clock a decorative asset for small homes. A built-in light shows off display shelves. It has an eight-day Westminster chime. A pendulum is optional. $\$ 359.95$. Made by Seth Thomas, Thomaston, Conn.


Mahogany Queen Anne style buffet server and pewter deck makes an important piece of furniture for dining, living, or family room. Adapted from a design found in Bermuda, the two pieces retail for $\$ 330$. From the Crown Colony group, Kroehler Mfg.Co., Louisville, Ky.


Finished on all sides to make a room divider, this oil-finished walnut desk is a complete office at home. Designed by Ruth and James Clark, it holds a typewriter and files with room left over. \$299.50. Richardson-Nemschoff, 1674 Merchandise Mart, Chicago 54, III.


Of solid maple with lightly distressed finish, this bed designed for small homes has trundle to pull out for young guest. $\$ 160$. Thomasville Furniture, Ind. Thomasville, N.C.


Carved and shaped Dante chair, finished with beautiful walnut veneers, has modern comfort in the upholstered back, seat, and arms. \$118. Fancher Furniture, Salamanca, N.Y.

All prices approximate, excluding shipping

## First 14-Ib. capacity washer ever!



## Washes any load

## from a 14-1b. hamperful to a $2-1 \mathbf{l b}$. handful really clean

Now you can do 10 full-size sheets in one load or a handful of wash in the new Norge 14. Get wash really clean... with only the water you need. Designed for women who need all the capacity they can get and want a washer to do small loads, too. So sturdy and dependable it's backed by a 2 -Year Service Policy.
It's all you ever wanted in an automatic washer. In the Norge 14 even big loads have room to turn and tumble, while the extra-large agitator gently removes every bit of ground-in dirt from clothes.
But you wanted flexibility, too. Norge 14's "Flexi-Load" feature handles any size wash from 2 to 14 lbs ., with just the water you need. You don't need extra, expensive attachments to do the small loads.
See the new Norge 14 and matching Norge 14 Dryer. We think you'll agree the Norge 14 is so good it just had to be designed by a woman.
The biggest thing to happen to washday since washing went automatic



Be daring with color...safe with over

## 1,300 Benjamin Moore 's

 that will last for years through
it isn't their regular line of work or profession. So dust off all those so-far "useless" facts you've been collecting all these years about your special subject. This may be your chance to have the last laugh on your Greataunt Tillie who's always been saying, "So what if you do know the dates of every battle in the American Revolution... I still say you ought to go out and get a job.
Not that we were ever seriously accused of lacking it, but if anything, we've got even more of a "beat" these days than before, and part of it's probably due to our having played the album of a new group, The Rooftop Singers, called Walk Right In! for about the umpteenth time. The group, headed by Erik Darling, and currently recording on Vanguard, seems-at least to us-to have created a genuinely new style of folk singing. Drawing freely upon blues and gospel rhythms, they achieve the kind of relaxed, uncontrived beat that seems so-o-o easy to do. We liked this one played all the way up on the hi-fi. ...
For a long time we've wondered what it was a sign of (incipient aging? . . . encroaching wisdom??) when exactly the same characteristic or quality of a person or thing that previously made you, if not dislike them, then definitely not a "fan," begins to become the aspect that you find most attractive. The point we're trying, in our stumbling way, to focus on is one Ella Fitzgerald, singer, and her inimitable quality of delivery best-and perhaps only-defined by the term "dispassionate." Miss Fitzgerald has been "throwing songs away" since as long as we can remember, and frankly it used to disturb us. What we craved in our greener years was a singer who cared. Well, we're perfectly prepared to admit for whatever it represents psychologically that Miss Fitzgerald's style at the moment has changed not a bit but that our own reaction has come the full half-circle around. A perfect example of Miss Fitzgerald at her uninvolved best is her album issued by Verve called Ella Swings Gently with Nelson, Nelson in this case being Nelson Riddle, maneuverer of some of the silkiest arrangements we've ever heard, among them such things as Street of Dreams, I Wished on the Moon, and Georgia on My Mind, to name just a few of those that struck us as being particularly fine.
Speaking of which (Georgia on My Mind that is), what can possibly account for this strong affinity we feel with most places that have songs written about them? We've never even seen Alabama and yet Stars Fell Onmakes us practically melt, and a really fine arrangement of Moonlight in Vermont has us nodding sly and secret agreement to the lyrics even though we've never had the pleasure of being anywhere near Stowe or Sugarbush in our life. (Invitation, anyone?)
So that, Doctor, is our problem. How can you possibly keep getting
nostalgic (dictionary definition: a longing to go back to one's home) for someplace you've never even been? ...
Just in case you get the wrong idea, there are a few places we actually have seen in the flesh, so to speak. In fact we've even gotten as far as a first line and a tune of our own. . . . It goes: "On the beach at Balboa . . ." (in California, that is).

You'll have to imagine the tune I guess. ... I mean we know how it goes but it's a little hard to express in words. We could begin to give you the idea by saying the first three words are straight one-note monosyllables but then when you come to the second syllable in the word Balboa that kind of goes two notes on the "bo," holds for two beats and
then comes down for the final "a." See, it's a little messy that way, but then we told you it would be. Anyway, just don't anybody steal it from us just yet. Any day now we're apt to write a second line, and then maybe even a third, and after thatwell, all we can say is we hope you've been saving your money, Hoagy Carmichael. ...

THE END


The quiet elegance of a solid cherry master bedroom


## is just one of hundreds of decorating ideas you'll discover in this new Ethan Allen Treasury.

May we present the Ethan Allen Treasury of Early American Furniture? (and what an idea-filled home decorating guide it is!) This big $11^{\prime \prime} \times 14^{\prime \prime}$ book with its 160 lavishly illustrated pages describes more than four hundred open stock pieces of friendly Maple and Birch, elegant Cherry, magnificent Mahogany, rustic Antiqued Pine to fit every home and every mood. You'll be inspired by dozens of practical "just-for-you" solutions to furniture arrangement, color schemes, accessories, problem corners, broken walls, storage. And you'll go back to this Treasury for years, because Ethan Allen never goes out of style. Would you believe that all this costs you but a dollar? It does-so send this coupon in today!

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New improved Dishwasher all not only ends water spots but dissolves 7 other stubborn spots that trouble every automatic dishwasher owner! Dishwasher all's super-penetrating solution gets in and under these spots, lifts them off and floats them away. Dishware comes out sparkling clean - even after being stacked for hours in your dishwasher.
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It's September-and if you've a five- or a six-year-old youngster it's time that he leave the sheltering walls of home and take his first halting steps to school. This can be the most exciting day of his young life, or it can be otherwise. It can be a time for tears all the way to and from school or even a mysterious tummy ache that disappears when the school bus has passed by. School days can be happy days if your child is ready-physically, mentally, and emotionally. Herewith are some tips to make it so.

To help him, let him become acquainted with other children in the neighborhood who are starting school the same day. Be sure to take him for a pre-school visit. Visualize how cavernous those classrooms must seem to him and then explain what goes on within those friendly walls. Describe all the exciting things he'll be doing when it is his very own school.

Spend a little time each day prior to school, teaching him how to manage his clothing. He should know which arm to put in which armhole, how to turn a sweater right side out, how to manipulate a zipper, how to put on his rubbers or boots and which one goes on which foot. Give him a chance to do these things himself under your guidance. The more he accomplishes for himself, the more self-confidence he'll have when he faces the new situation. For your own sake, make certain that each sweater, coat, glove, hat, scarf, rubber, and boot has his name marked on it.

As opening day nears, he should have learned his own name, address, and telephone number. Make a dry run and walk him to school several times. He should learn to take the shortest and safest route, to walk on the city sidewalk or on the left side of a country road, to look carefully both ways before crossing a street. If he goes by bus, show him where he gets on and off. Teach him to be careful boarding or leaving vehicles, to remain in his seat and be quiet, to refuse rides from strangers. When he knows the way and you feel it is safe, plan to turn him loose and let him go alone. If you must go with him for safety's sake, stop at the school steps, cheerfully tell him good-by, and leave him on his own to get acquainted with his new classmates.

You should also remember that school begins for parents too. One of the first persons you'll want to meet at school is your child's teacher. Give her a chance to get acquainted with your child, then go to school to visit when it's convenient for both of you. Find out what she's trying to do for your child and how you can help. If something unusual has happened at home-such as the loss of a pet-feel free to discuss it with the teacher. Likewise, if something happens at school to upset your child, be certain to talk it over with her. Other people you'll want to meet are the principal, the school doctor, the nurse, and the school secretary.

Finally, become a member of your school's Parent-Teacher Association. Join it with enthusiasm for this is the organization that combines the efforts of the parent and teacher in accomplishing the ultimate goal-the best education for all children.
P.S. If all the advice we have given you here seems to apply only to little boys because of the frequency of the he's and the him's, be assured. Everything we have said here holds true for little girls too-only more so. A little girl should also have a spanking-new dress to go with her new pencil box!


## Will they get into the college of their choice?

In 1900 , only $4 \%$ of our young people went to college. Today, $30 \%$ want to go. By 1970, it is estimated that $50 \%$ will try for a college education. Yet, the limited capacity of our colleges and universities cannot accommodate the increasing number of young people seeking greater knowledge. Thousands will not be accepted by the college of their choice.

What can you do to help your youngster meet ever-stiffening entrance requirements? One answer is to give the young adult in your family a set of literary tools uniquely created to sharpen his mind for the scholastic challenge ahead. At the same time, those literary tools can help lead the way to a broad liberal education, acknowledged by most educators as the foundation for a fuller, richer understanding of life. For these purposes, the new 10 -volume gateway to the great books was conceived and published.

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gateway to the great books consists of 10 volumes, 225 selections, 307 illustrations, 135 authors, and over $2,500,000$ words. Introductions give background information about every author and selection. Writers, ranging from ancient to modern, include: Plutarch, Dante, Galileo, Benjamin Franklin, Sir Walter Scott, Abraham Lincoln, Robert Louis Stevenson, Mark Twain, F. Scott Fitzgerald, John Dewey, Albert Einstein, George Bernard Shaw, Eugene O'Neill, Ernest Hemingway, T. S. Eliot and Bertrand Russell.
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reader to trace related topics, authors and works throughout the gateway set. In addition, the syntopICAL GUIDE refers to related topics, authors and works in the great books themselves, and to the great ideas in the SYNTOPICON, the two-volume directory of ideas indexed to the great books.

A set of gateway to the great books in your home can give the young adult in your family a "head-start" on college competition. With a conscientious effort on his part to absorb the knowledge contained in Gateway, you should soon notice a marked improvement in his ability to think, speak and act with sound judgment. The knowledge he acquires may even help open the door to the college of his choice.
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Parallel-O-Grey ${ }^{\oplus}$, Parallel-O-Bronze and Heat Absorbing glass. (See diagrams.) All can be heat-strengthened to resist breakage. Why not do as the Turners do-enjoy Open World living all year round with $\mathrm{L} \cdot \mathrm{O} \cdot \mathrm{F}$ Plate Glass. Write for our booklet, "Look at Living in the Open World". Send 10 é to L•O•F, 2593 Libbey•Owens ${ }^{\cdot}$ Ford Building, Toledo 2, Ohio.


Diagrams illustrate, in simplified form, differences between four kinds of L•O•F Plate Glass.


Here's a chance for you to find out just what you know-and don't know-about a subject on which everyone should be reasonably well informed. The subject is money and most of the questions here call for information of a very practical sort.

If your ideas on these important money matters are fuzzy or erroneous, the information you acquire should enable you to manage your personal financial affairs a lot better. Learning the right answers to some of these questions may in fact pay off very quickly in actual dollars and cents. Answers on page 71.

1. The usual maximum on personal bank loans is:
( ) $\$ 500$
( ) $\$ 1000$
( ) $\$ 2500$ to $\$ 5000$
2. In deciding whether you have sufficient income to carry a new installment loan comfortably, banks and other lenders commonly use a yardstick which specifies that your monthly payments on the new loan, together with those on other installment obligations, excluding mortgage payments, should not exceed:
( ) $10 \%$ of your monthly take-home pay ( ) $20 \%$ ( ) $30 \%$
3. The cost of personal loans obtained from banks, small loan companies, and credit unions is about the same.
( ) Right
( ) Wrong
4. Most personal loans are made on the borrower's signature. ( ) Right () Wrong
5. Your money is insured up to $\$ 10,000$ :
( ) Only in savings and loan associations
( ) Only in banks
( ) In both types of institutions
6. As an emergency fund, the average family should have in its savings account an amount equal to:
( ) One month's income
( ) One year's income
( ) Three to six months' income
7. Most financial counselors agree that the cost of monthly carrying charges for the mortgage, taxes, and insurance on your home should not exceed one week's take-home pay.
( ) Right
( ) Wrong
8. The common formula used in determining how much a low- or middle-income family can afford to pay for a home is two and a half times its established annual income. This formula refers to the family's:
( ) Gross annual income
( ) Net annual income
9. People who pay cash ordinarily have an easier time opening charge accounts than those with credit records.

## ( ) Right

( ) Wrong
10. If there is a discrepancy between the words and the figures on a check, the words control the figures. That is to say, the value of the check will be the amount you write in words as against the amount you write in figures.
( ) Right
( ) Wrong
11. There's no real need to hold on to canceled checks.
( ) Right
( ) Wrong
12. To stop payment on a check you must make a personal visit to your bank.
( ) Right
( ) Wrong
13. Postdated checks (those dated in the future) are legally worthless, if deposited before the date on the check.
( ) Right
( ) Wrong


## "How we retired in 15 years with \$ 300, a month"

"Jane and I are still landlubbers at heart, but we'll get used to this boating life. There are lots of things we're getting used to these days-such as sleeping late, waking up to sunshine every day and doing the things we enjoy most. Best of all, we're getting used to not worrying about moncy!
"Sounds like paradise? Well, almost. We've just retired, financially free and independent, with an income of $\$ 300$ a month guaranteed for the rest of our lives.
"I've got to give credit where it's due. If it hadn't been for Jane, we might still be shivering up north instead of relaxing here in Florida.
"It was back in '48, on my fortieth birthday. We had some friends over for a little celebration. There was lots of joking and fun about my hitting the forty mark. Chuck Russell presented me with a cane and remarkel, Well, old man, you'll be needing this soon?'
"It was good for a laugh at the time, but a few nights later, as Jane and I sat reading, his remark ran through my mind, and this time it wasn't very funny. I began to imagine what it would be like to be old and helpless-dependent upon
charity; I wondered what would happen to Jane if I died first; I worried about the day when I'd have to quit working and my income would stop.
"All of a sudden, Jane looked over and interrupted my brooding. 'Everyone gets to be forty, you know. It's not the end of the world.' I have to admit that Jane always could read my mind.
"'It's not the forty that bothers me,' I told her. 'It's the twenty or thirty years still ahead of us. Someday we're going to have to retire, whether we want to or not. And I guess it's high time we started doing something about it.'
"She really surprised me. 'I already have!' She showed me an advertisement in Life magazine. It told about Phoenix Mutual Retirement Income Plans. I noticed that the coupon was missing. 'I mailed it this morning!' she announced proudly. Reading my mind again!
"A few days later a booklet arrived in the mail. It described Phoenix Mutual Retirement Income Plans-a means of saving and investing for the future, plus immediate life insurance protection for Jane if anything happened to me. It sounded like just what we needed, so I applied for a plan of my own.
"From that day forward, we never worried about growing old. Fifteen years go by pretty fast. But we haven't minded. In fact, life really begins at fifty-fivel"

## Send for free booklet

This story is typical. You, too, can plan to have an income of from $\$ 50$ to $\$ 300$ a month or more-beginning at age 55 , 60,65 or older. Send the coupon and you will receive by mail, and without charge, a booklet which tells about Phoenix Mutual Plans. Similar plans are available for women and for Employee Pension Programs. Don't delay. Send for your free copy today.

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$$
\text { Plan for Men } \square \quad \text { Plan for Women } \square
$$

Name
Date of Birth
Business Address


## "We're leading the clean clothes league now thanks to Philco and Improved Tide."

Mrs. Thompson's basketballers can really dirty up a batch of clothes. But she handles the laundry like a pro now, thanks to the folks at Philco. They knew just what she needed. They built her new Philco washer to clean big, tough loads, and then they put a box of Improved Tide in it.

Philco's large, family-size tub handles 12 pounds of clothes at a time. Their patented "undertow agitator" action pulls clothes in and down, round and round, so
that Improved Tide's hard-working suds get to every ounce of the $12-\mathrm{lb}$. load. And when Tide's cleaning power gets after dirt,


UNDERTOW AGITATOR
every fiber of cloth comes clean. In fact, Improved Tide gives the cleanest wash in Tide's history.

Philco makes it their business to help women get the cleanest washes possible. Philco starts every woman right by putting a box of Improved Tide in all their toploading automatics.

[^1]
# CRISP DESIGN OUTSIDE SOARING SPACE INSIDE 

For many years there has been a constant flow of design ideas from the West to the East. The Japanese influence crossed the Pacific to make its mark in California, was modified there, and then began a journey to the Eastern parts of our country. The house shown on these pages indicates a reversal of that flow, for it is definitely an Eastern house that has settled in California. The owner and designer, architect Donald Goodhue, received his training at Harvard and spent a year in Denmark on a Fulbright Scholarship. Both of these influences are reflected in this house.



Although the house itself is small, such attention has been given to the design that a spaciousness has been achieved that is not often seen even in larger houses. Taking advantage of the sloping site, the architect has created a two-story living room. An additional feeling of space is gained by the balcony-hall which extends from the front door to the bedroom area. As you enter the front door you are treated to the dramatic view shown in the picture at the right. The camera is looking down on the living room and beyond into the conversation grouping around the hearth. The photo at the left looks the opposite direction-from the fireplace area up to the front entrance.

The plam, far right, shows how compaet this efficient house is. Circulation is rather unique for a modern house because of the back hall which is reminiscent of large old-time houses. This permits passage to the kitchen and utility areas without going through the main living areas of the house. The way the house opens to the outdoors plays an important role in the illusion of space. Service areas open to the courtyard, while the master bedroom and living room open to wood deeks on the down-hill side.

The hearth area, to the right, is under the master bedroom, and its low ceiling contrasts sharply with the soaring living room. It seems to us that the warmth of a log fire deserves the cozy feeling a low ceiling suggests. Here there is an intimate atmosphere that offers seclusion from the outside world. Built-in seating is ample for lounging without destroying the balance of the room. The wood ceiling with its recessed lighting adds to the special feeling. Black-shuttered windows at the far end of the room repeat the ones by the front door and can either emphasize the closed-off feeling or open up for light and ventilation.

$\square$ cappori



Thekitchen area of a home demands careful planning to provide efficieney and, just as important, careful detailimg to ereate an attraetive alesign. This galley-type kitchen is a success on both counts. It is so planmed that every inch of space, each eabinet, counter top, and appliance works to best advantage. The combination of dining, kitchen, and laundry as a unit is a work-saver; the traffic pattern in and around the kitchen keeps it from being a freeway.


Another view of the kitchen further emphasizes the fact that this is also a pleasant place to be in. The suspended wood cabinets are truly handsome and are open to both kitchen and dining room. The kitchen can be shut off by sliding opaque glass panels under the cabinets. Or, for serving buffet style, panels can be open as shown above. Laundry area can be discreetly hidden from snack and breakfast area by folding doors. Even the vent and ducts over the surface cooking top are a part of the architectural design. Wood tones of the cabinets blend beautifully with the furniture in the dining room.

The air around us is getting dirtier every day. Probably 100 million Americans are plagued by air pollution in one form or anotherby smog from factories and automobiles, by pollen, and by other irritants. In many parts of the country, there isn't much hope of drawing a breath of fresh air outside your home, but you don't have to put up with "household smog" inside. You don't have to suffer with air that deposits soot on walls, discolors furnishings, or spreads kitchen grease. You don't have to burn your nose and throat in winter with dry air or suffocate in muggy summers. Here is an up-to-the-minute report on air-cleaning equipment to make the home you live in a home you can breathe in.

## KEY TO GOOD AIR CLEANING

A good filter is the key to air cleaning. But experts say the usual filter on a furnace or air conditioner is so porous that its filtering efficiency is minimal; it is good mainly for keeping out large bits of lint and other impurities. Air conditioning will, however, offer excellent relief to allergy sufferers by shutting out pollen. A good filter must be capable of removing microscopic particles from the air.

## THE ELECTRONIC AIR CLEANER

The best air cleaner for houses is the electronic type. Sometimes called an electrostatic precipitator or filter, it is the only available device that can consistently remove really small particles from your air. This is done with an electric charge that traps foreign particles.

Tests show that a good electronic air filter will trap 99 per cent of allergy particles, such as pollen, and from 70 to 95 per cent of other impurities, such as dust, lint, soot, fly ash, fungus spores, cooking grease, and oil and tobacco smoke.

Electronic air cleaners come in portable sizes for one or two rooms, plus larger sizes to handle all the air in a house. The whole-house kind is hooked up with a furnace and/or a central air conditioning system. Prices range from $\$ 150$ to $\$ 200$ for the portable kind and from about $\$ 300$ to $\$ 700$, installed, for the central kind, depending on the house and the air capacity required. With either type you will of course need air conditioning in summer to permit closed windows.

Make sure you are getting a genuine electronic filter. Many "air purifiers" are called "electronic cleaners" and yet do not apply electricity and are only a little more efficient than an ordinary furnace dust-stop filter. This is shameful deception.

## REGULAR AIR PURIFIERS

A portable, nonelectronic type of air purifier is also on the market in great variety. This type is somewhat larger than a table radio and ranges in price from $\$ 30$ to $\$ 100$. It is, in effect, a small box containing one or more filters and a fan for drawing room air through the filter and out again into the room.

One of these can do a fairly satisfactory job of air cleaning and pollen removal if it has a good filter and enough air capacity.

## AIR-FLOW CAPACITY

In addition to a filter, the satisfaction you get from any air cleaner hinges to a critical degree on its ability to handle a lot of air. Even the best equipment will not serve well unless it can recirculate all the air in a given space six to eight times an hour.

Say you need a portable air cleaner for a room that's $10 \times 15$ feet with an eight-foot ceiling. The air volume is 1200 cubic feet. To clean it all every 10 minutes you would need a model with an air-flow capacity of 120 ( 1200 divided by 10 ) cubic feet of air per minute (c.f.m.). You would do even better with an air-flow capacity of 160 c.f.m.

## EXAGGERATED CLAIMS

Don't expect air purifiers to cure your ills, despite wild claims. Here's what to watch out for:
Germ killers. They are "largely a sales gimmick," a research engineer told us. "Their value in killing germs is insignificant."
lonized air is another muchadvertised feature. The introduction of negative ions of electricity into your air is supposed to lift your mood and relieve respiratory troubles. Food and Drug Administration officials report: "We remain unconvinced that negative ions have any medical value."

Ozone generators are used to kill odors and freshen your air. The catch is that ozone is a health hazard. Dr. I. H. Kornblueh of the American Institute of Medical Climatology says, "A good air purifier
should not generate detectable amounts of ozone. Ozone inhaled constantly, even in small quantities, is harmful." Besides, ozone does not erase odor particles from the air. It merely numbs your sense of smell.
True odor removal can be achieved only with an activatedcarbon filter in addition to the regular filter. Both are necessary.

## HOODS AND FANS

Exhaust hood. A hood and fan over the range to blow cooking fumes outdoors is the best way to keep kitchen air clean. It should be deep enough to cover all or most of your cooking surface. Ideally it should go no more than 26 inches above the cooking surface; only up to 30 inches if necessary, but the lower the better.

You should have a good grease filter (built into the hood) and a good fan. The filter normally should be at least a half inch thick and easily removable for cleaning. A good hood-fan combination, properly located, will blow out up to 85 per cent of cooking fumes.

Exhaust fan. If a hood is unsuitable, your next-best bet is an exhaust fan that will blast fumes outdoors. It should remove about 50 per cent of the heat and fumes.
The fan should have an air-removal capacity of at least 300 c.f.m. for the average kitchen. It should be in the wall behind the range, from one to two feet above the range top, or in the ceiling over the range. A fan only a few feet to one side of your range will catch no more than about 10 per cent of the heat and fumes.

Ventless hood. A ventless hood enters the picture when your range or oven is too far from an exterior wall and an exhaust fan or hood is impracticable. It is less efficient, as its exhaust is discharged back into the room. But if you have no other means of exhaust, a ventless-type hood can be quite satisfactory.

Bathroom fan. An exhaust fan can do much to rid the bathroom of excess moisture and provide ventilation. It should have a capacity of at least $100 \mathrm{c.f.m}$. or provide eight air changes an hour.

Regardless of the kind of exhaust hood, ventless hood or exhaust fan you get, make certain it is tagged with the seal of the Home Ventilating Institute (HVI), which certifies the stated performance rating.

## HUMIDIFIERS

Even though your house air is as pure as a winter breeze, you still may find it difficult to breathe. Or your nose and throat may hurt, your furniture cracks at the join's, and sparks fly when you walk across the rug. The antidote is to add moisture to the air with a humidifier.
There are basically two kinds: a portable for one or two rooms, and a larger size capable of moistening all the air in a house. Portables range in price from $\$ 40$ to $\$ 125$.
The larger kind for the whole house can be connected to a forcedair furnace. It will add moisture to the heated air being supplied to your rooms. Capacity should be about one gallon a day of moisture discharge for each room.
If you have hot water, radiant, steam, or electric heat (no ducts), the same kind of whole-house humidifier can be used except that it must be installed independently of the heating system. It's a good idea to install a humidistat control, set to the humidity desired. A good unit costs from $\$ 125$ to $\$ 200$ installed.

## DEHUMIDIFIERS

In summer the tables are turned and the air is loaded for days on end with wringing-wet humidity. You can rid the air of excess moisture with either a dehumidifier or an air conditioner.

The dehumidifier is a small portable appliance, weighing about 45 pounds. It is chiefly to protect your house and possessions from rot, warped wood, dampness, and rust.

The average portable dehumidifier can remove from 10 to 25 pints of water every 24 hours. (By contrast, an ordinary room air conditioner will wring out from 100 to 200 pints of water every 24 hours.) A dehumidifier should come with an automatic humidistat control so it will not be running all the time. Prices range from $\$ 75$ to $\$ 125$.

However, if you want really personal relief from stifling summer humidity, the inescapable solution is genuine air conditioning.

Of course, the ideal situation would be to own a combination of these wonderful appliances. However, if that's not possible, investigate the major causes of "household smog" in your own home, and select the device that best suits your needs and will provide cleaner, more healthful air for you and all of your family.



THEODORE A. WESTON
If you're shopping for trees or shrubs this month, think twice. Take advantage of the fact that in the sylvan world, autumn is the most colorful season of the year. Choose kinds that not only will contribute to your year-round garden design but also will glorify your landscape with the golden yellow, glowing orange, and blazing red of their foliage when most of your other plants are in dreary, sad decline.
The fall-colored trees and shrubs pictured here are only a sampling of the kinds that are suitable for home-garden use. You'll find a full roster of them on page 79.

1. At this Colorado home, the yellows of the witch-hazel and the locust tree and orangescarlet of the sumacs make fall the gayest season of the year. 2. For rich blends of gold, orange, and red, the sassafras is especially useful. Its size can be limited by regular pruning. 3. Most colorful of all shade trees in autumn are maples, ranging from brilliant yellow to vivid red. One of the best is the sugar maple, which turns October into a dazzling month at this New England home. 4. The bright, abundant, latesummer fruit of the mountain ash, which is followed by reddening of the leaves, gives it a long season of effectiveness. 5. The fiery scarlet of winged euonymus (Euonymus alatus compactus) makes it one of the best shrubs for fall color. 6. Fall foliage color is often accentuated by strong contrast, as in this use of coppery purple Japanese barberries near a planting of yellow aspen. 7. Autumn-colored leaves, like flowers, are beautiful at close range as well as at a distance. This is a close-up of the evermoving leaves of the aspen. 8. Colorful foliage in the fall and countless clusters of lily-of-the-valley-like flowers in the spring make enkianthus a useful, two-season shrub.


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It has been said that there are no newideas, just refinements of old ones. The delightful designs featured on these pages would seem to verify this. The atrium or inner court, which originated in ancient Greece and Rome, was designed as a source of light and air for houses whose outer walls were solid to protect them from the proximity of neighbors and thoroughfares. As our crowded conditions are beginning to approximate those of old, more people are resorting to inner courts for their private world.

home buyer's guide xix/e. d. fales Jr. So great is the rush to new homes beyond town and city water lines that by one educated guess, one million families will drill private wells in the next two years. For many families, the discovery of crystal-pure water gushing from their own soil will be a thrill. But for some, their wells will be a disappointment.

There are ways to avoid trouble but well contractors say few owners know them. "Some of the things we see are heartbreaking and unnecessary," a leading driller reported. "We see cheap materials used, even though the home owner is billed for quality materials. Some steel casing used today is so thin you can dent it with a hammer. Four years from now, the owners may wonder why their wells have failed."

The following report will help you steer around trouble and get the most from your well. Here are facts that should be known by prospective well owners as well as anyone who already has a well in use today. It will pay to know them even if you now have an excellent well, for the day may come when it will need deepening, or replacement. The facts have been assembled with the help of contractors, the National Water Well Association, and the U.S. Public Health Service.

GOOD WATER IS GETTING HARDER TO FIND. A few years ago you could drill (the term is used here to include all forms of well construction) nearly anywhere and find water near the surface. Now over 1000 new wells are being sunk every day and the draw on underground water supplies is enormous. In some areas the underground level has dropped sharply and some old wells have run dry. In one Midwest area, drillers used to find water at 30 feet. Now they go down 600 to 1000 feet.

Meanwhile, untold volumes of home sewage and industrial waste are getting into the ground and often flowing for miles. Two wells drilled recently in undeveloped country were mysteriously contaminated by chemicals which a driller eventually traced to large potato farms.

Sand used to be considered a safe filter, but today new household chemicals permit contamination to travel unchecked through it. Contamination is spreading even into rock. Frank R. Sayre, one driller, says he used to find pure water 10 feet down in ledge rock. "But now when I hit water at that level," he says, "I just seal it off and keep going. I rarely stop short of 75 feet. We've even found contamination 140 feet down in rock," he says.

Another driller, Frank Bacon, says his wells used to average 126 feet. Now they average 170. The
trend then, is toward deeper wells in many areas. It is also toward better safeguards-to seal out ever-growing pollution. This can be expensive. Some owners are shocked when they hear a well can cost from $\$ 200$ to $\$ 2000$ or more (complete with pump). And yet over the years a well is a cheap enough investment; it may cost less than you would pay for city water.

WHO PROVIDES YOUR WELL? If you custombuild your house, chances are you will hire your own well contractor. He will give you the benefit of his knowledge; he may suggest a site but approving it is your responsibility, so find out all you can about the terrain, the drainage, and the laws.

Some owners leave the decision to their building contractor. This is fine if you have a good, conscientious builder. But drillers say, "A second-rate builder will subcontract the job to the cheapest well man who will give him a skimpy job and the owner won't know it until the well quits."

If you buy in a small development, your well is usually part of the deal; it comes with the house. It may be guaranteed, like the house, by your developer. But guarantees usually run out in a yearand you may face paying $\$ 1000$ for a new well if you accepted a poor one without investigating it.

BEFORE YOU BUY. Find out whether the land appears to contain water at all. Buyers sometimes find out too late that a lot has been drilled by prior owners without success.

Ask one or two good well contractors, the neighbors, public health officials, and plumbers. How deep did the neighbors have to go? Did they get pure water? How much flow can be pumped from their wells: one gallon a minute (poor), three gallons a minute (considered good in some areas), or seven gallons a minute (excellent)? Do their wells fail in summer? Are there thought to be waterbearing sands, gravels, or clay under your land? Or, is water commonly found in underlying rock?

Next you should find out about laws and mortgage requirements. (FHA has certain standards.) While some communities have no restrictions, others are so strict they'll even send a health official to show you where to drill. There may be other requirements having to do with pump housing, minimum flow, and nearness to septic tanks. In some states check "water rights" carefully.

PICK A DRILLER OF GOOD REPUTATION. Since a well is hidden, a shoddy contractor can cheat you in several ways. Besides using inferior materials, he may drill 60 feet and charge you for 100 feet. He may
(continued on page 72)


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The decorating in this beautifully designed home reminds us of jewels sparkling in a glass showcase. Charcoal-colored carpeting and white painted walls provide a clean, subtle setting for the fiery, gemlike colors strewn about the living room, seen here viewed from the rear terrace. Lean, upholstered seating units at right angles facing the fireplace are a
bold modern mosaic of color and pattern. Imaginative lighting adds to the luminous quality of the room.

But the real show-window drama of the house stems from the basic architectural concept. Designed by Claude Oakland, A.I.A. for Eichler Homes in Lucas Valley, San Rafael, California, this American contempo-
rary is built around an open-to-the-sky atrium. Virtually every room shares the airy, leafy charm of the inner court, although the bedrooms are pleasantly cushioned with privacy. The versatile plan encourages tasteful decorating in any style. Turn the page for more about this brilliant modern home with its ancient Roman air of ease and grace.

ROBERT W. HOUSEMAN
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 THE WEST

Dining area, below, has sliding glass doors opening onto terrace. Flowers and shrubbery make a beautiful backdrop for simple but effective decorating. Sculptured shapes and bright colors sparkle against the natural wood-tone paneling and charcoal carpeting.

Exterior façade of house is expressed in broad planes of ground-hugging design, enhanced by the gently sloping roof line echoing the surrounding terrain.
|

Brick fireplace, top right, dominates the living area. Surrounded by gleaming glass from floor to ceiling, it's a warm, hospitable area. Wall hanging is contemporary woven tapestry. Glass areas in the rear of house, plus glassed-in central atrium flood the rooms naturally with daylight but without sacrificing privacy factor.

Children's room, one of four bedrooms, is alive with the same staccato decorating as the rest of the house. Bright accents of color are as fresh and unabashed as a child's painting. The furnishings and background are simple to counteract the inevitable clutter of any young child's retreat. As with all the bedrooms in this basically "open" floor plan, room is situated so that privacy can be had when necessary.

Family room, extreme lower right, takes full advantage of the delightful open atrium at core of the house. The colorful indoor area for family living seems to flow right into the green-planted area for outdoor living. No draperies that would cut off the leafy view are needed. Near end of this convivial allpurpose room opens conveniently onto the well-equipped kitchen.
Shopping Information, page 70



## CONDOMINIUMS <br> hav oking <br> arrived-and this strange-looking

 word will spell very good news for thousands of American families as soon as they learn how to pronounce it and find out what it means.Con-do-min-i-um is actually a Latin word dating back to the sixth century meaning "joint dominium" or "joint ownership." In its present sense, it is a new form of owning apartments or other real estate in a way that of-
fers some strong advantages over renting or buying into a co-operative venture. The occupant is the sole owner of his own apartment or house in a multifamily project, but shares ownership of everything else-the land, hallways, walls, roof, swimming pool, gardens, lobbies, shops, and other common areas.

This means that when you buy a condominium apartment, you get clear title to your residence just as you do when you buy a house. And
as when you buy a house, you buy on your own terms, get your individual mortgage, pay your individual principal, interest, and property tax, and are free at any time to sell your apartment to anyone you want to at the best price you can get.
At the same time, as co-owner of all the common elements of the property, you abide by certain rules spelled out in a "public deed" describing how the project shall be operated. You and other owners



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elect a board of directors who manage the property and each owner pays a monthly assessment or maintenance fee. (If you own a two-bedroom apartment, your share will be less than that paid by the owner of a three-bedroom unit.) When an apartment changes hands, the new owner is also bound by the condominium agreement.

This type of ownership has definite advantages over owning a co-op apartment. A co-op owner actually
buys shares of stock in a corporation that owns the property. If some tenants default, the others must make up for the liabilities. Co-op owners face the risk of bankruptcy in their project in case of economic recession. Condominium owners face no such risk. They lose nothing as long as they keep up their own mortgage payments. (In California, some co-ops avoid the bankruptcy risk by "tenancy-in-common" deeds given to buyers. Each owns an undivided
share of the project. But the owners still run the risk of extra tax and maintenance charges if some of the residents default.)
Also, condominium owners can retire their mortgages early if they want, or refinance if they should happen to need some cash. Co-op owners cannot. Moreover, condominium owners can sell and keep any profit they make, whereas many co-op owners may not sell their stock for more than they paid for it.

The advantages of a condominium over renting are even greater. Like a home owner or co-op owner, the condominium owner can deduct his property taxes and his mortgage interest payments from his personal income, and this can save considerably in income taxes-equal to cutting his housing costs 15 per cent to 30 percent. And the buyer of an apartment builds up his equity in his mortgage payments, while the renter has no gain at all. (continued on page 70)






Cooky experts agree: yummiest, munchiest cookies ever! Recipes, page 58.

## Every one of Campbell's 38 delicious soups is How many of them have you tried? <br> Can't you just hear your family saying, "Hey, Mom, we never had this soup before. Let's have it again soon"? <br> And can't you picture all the deliciously different meals you'll be able to plan with such an exciting variety of soups? <br> Which soups should you try? First, let your eyes take a delicious trip all over these pages. Next, check off below your favorite soups and double-check the ones you're not acquainted with. Then, when you're shopping, pick up the family's favorites and also some kinds they've never enjoyed before. <br> You will discover soups that will help make a light meal a triumph and a big meal a feast. Whether for <br> lunches or snacks or Sunday dinners, you'll find all of the 38 Campbell's Soups are just great. And you'll find the versatile cream soups are also superb as pour-on sauces and cooking ingredients. <br> Did you ever realize there <br>  <br>  are so many delicious Campbell's Soups? Don't forgetevery time you shop, pick up your favorites and take home some new ones, too. And surprise your family by serving their soup in these beautiful mugs and bowls (see free offer below). <br> 

## Campbsll Soup Company

## someone's favorite.

Look at this variety... 38 different soups and every one is someone's favorite. Check off your favorites. Doublecheck the ones you've never tried before. Then try them soon.

## CAMPBELL'S SOUPS

$1 \square$ Bean with Bacon $17 \square$ Cream of $2 \square$ Beef Mushroom
$3 \square$ Beef Broth $4 \square$ Beef Noodle $5 \square$ Black Bean $6 \square$ Cheddar Cheese $7 \square$ Chicken Gumbo 8■ Chicken Noodle $9 \square$ Chicken with Rice $10 \square$ Chicken

Vegetable
$11 \square$ Chili Beef
$12 \square$ Clam Chowder (Manhattan Style)
$13 \square$ Consommé
$14 \square$ Cream of Asparagus
$15 \square$ Cream of Celery $16 \square$ Cream of Chicken
$18 \square$ Cream of Vegetable 19■ Green Pea $20 \square$ Minestrone $21 \square$ Old-fashioned Tomato Rice 22■ Onion $23 \square$ Pepper Pot 24 ■ Scotch Broth $25 \square$ Split Pea with Ham $26 \square$ Tomato $27 \square$ Turkey Noodle $28 \square$ Turkey Vegetable $29 \square$ Vegetable $30 \square$ Vegetable Bean $31 \square$ Vegetable Beef $32 \square$ Vegetarian Vegetable

## CAMPBELL'S FROZEN SOUPS

$33 \square$ Clam Chowder $36 \square$ Green Pea with Ham
(New England Style) $37 \square$ Old-Fashioned $34 \square$ Cream of Potato Vegetable with Beef $35 \square$ Cream of Shrimp $38 \square$ Oyster Stew


- In return for labels from 12 different Campbell's Soups, we'll send you your choice of 4 mugs or 4 bowls. - These Waverly Ware mugs and bowls are made of a durable plastic that resists chipping and staining. $12-\mathrm{oz}$. bowls and $10-\mathrm{oz}$. mugs look like finest china. - Mail your labels from 12 different Campbell's Soups and your name and address (indicating your choice of mugs or bowls) to Mugs \& Bowls, Box 50, Camden, N.J. Offer expires November 30, 1963. Good only in U.S.A. Subject to state and local restrictions; void if taxed, restricted or forbidden by law.


## FROZEN SOUPS COUNT, TOO!

Since there are no labels on frozen soup cans, take a piece of paper, jot down the code numbers stamped on the end of the can. Send them in along with the labels from our condensed soups-a total of 12 different labels and/or code numbers-for your set of mugs or bowls.


Any size kitchen can be modernized with this new 30 inch TAPPAN Gas range

You'll be cooking faster, cooler, cleaner than ever, when you put this compact Tappan Gas FABULOUS 400 range in your kitchen. Faster ... Gas responds instantly. Cooler ... Gas broils with the oven door closed. And Gas is cleaner . . . everything is removable, for quicker, more complete cleaning.
The low price will surprise you. Yet this FABULOUS 400 Gas range by Tappan, like all of the finest Gas ranges, is built to Gold Star Standards. For complete details, visit your Gas company or appliance dealer.
american gas association


Beautiful roasts every time with Gas! Choose exact degree of done-ness-rare, medium or well. Oven control shuts off automatically when meat is just right. Extra capacity oven, holds large turkey. Automatic rotisserie, too.

Handled with care, automatically. The Gas Burner-with-a-Brain* guards gravies, delicate sauces, and your sauce pan . . . prevents overcooking or boiling-over.


LIVE MODERN FOR LESS WITH


Tomato rose: Make a cut almost sharp knife. Continue cutting, using tinuous spiral. Then carefully curl
through stem end with a
a sawing motion in a cona sawing motion in a con-
spiral around stem end.


## Curry

(continued from page 48)
Were you to travel through the exotic Orient you would meet and eat curry dishes in almost every country. It's a favorite method of cooking in Malaya. In Thailand a dinner always includes some type of curry. Burmese food is built around it and we all know India is famous for it. You would find that curries can be made with meat, poultry, seafood, eggs, and vegetables. This classic of the East is, we believe, the perfect dish for the Western hostess to serve at a buffet. It is simple to prepare and to serve and has the added advantage that it is best when prepared one day and eaten a day or two later.

What is curry? The word comes from the Indian word "turcarri." Colloquially shortened to "turri," it was then Anglo-Saxonized to "curry." Basically we would say curry is a food cooked in a spiced sauce. Curries can vary from very mild to those that are hot enough to make you cry. Strangely enough, the milder ones are found in the cooler climates while in southern India, for example, where it is hotter the curries are more pungent. This is said to be because the appetite in hot weather needs stimulation which the spices will provide. Here's a general rule to follow in your own cooking: one tablespoon of curry for three cups of meat, chicken, or seafood, and one quarter cup of butter, margarine or oil will produce a mild curry; two tablespoons, a medium; three or more, a hot, hot, hot!

Many spices are ground and ingeniously blended to make the curry powder used in the dish. All curries have a characteristic flavor, yet one will differ from the next. It is the selection of spices cooked in the sauce that gives each its different flavor. In Oriental countries curry powder is not a standard blend-cooks there would not think of using the same mixture of spices for seafood as for lamb. Each food has its own blend. Further, each family has its formula for each blend. The housewife of India grinds and blends her spices for the family curry with a heavy stone roller and slab, which every Indian household owns. She will use many-sometimes as many as 32 - different spices to make her curry powder. Ginger, turmeric, red pepper, and coriander are considered essential. It will most probably include fenugreek, dill, mace, cardamom, and cloves.

Life is simpler here. On the grocer's shelf we can find our curry powder carefully blended for us. We can choose from an almost endless variety of domestic and imported ones that vary from the very delicately spiced to the biting. Whichever you buy is a matter of individual taste and you'll no doubt wish to try several different brands to find the one that suits you. Of course, if you wish to experiment, buy the spices and make your own blend of curry powder. (continued)
(continued) Formulas vary from cook to cook, but there is one bit of spice cookery they all agree-even insist on. Spices in a curry must be cooked and they won't be if they are just heated in liquid. Your curry powder should be added to the hot fat so it can cook.

In most parts of the Orient, rice is traditionally served with curry. It may be fluffy white rice, saffron rice, or a "pilau." This last is rice combined with bits of meat, mushrooms, peas, or other ingredients.

In those sections of India where rice is not eaten with curry, some form of unleavened bread is served. There are several types-chapatis, parathas, popadams, and puris. The chapatis and parathas are similar. Both are made from flour (preferably wholewheat), salt, and water that is mixed, then rolled into large circles that are cooked on a griddle. The chapatis are baked dry while the parathas are buttered before baking. Popadams are thin, crisp wafers made from rice flour and soybeans. The puris are cooked in hot fat. They are really fried bread that puffs as it cooks.

An important part of a curry dinner is the condiment accompaniments. Each is served in a separate, small dish with its own small spoon. Arrange them to add glamour to your table in individual bowls or cups on a Lazy Susan, or in compartmented dishes. Each guest helps himself to what he wants and sprinkles it over his rice and curry. The list, from which you may select as many or as few as you wish, will start off with chutney-it is a must. Other things you might include are shredded coconut; chopped onions, green peppers, or tomatoes; chopped nuts-toasted almonds, peanuts, or cashews; sliced bananas; sliced gherkins; crumbled crisp bacon; crystalized ginger; chopped hardcooked eggs; grated orange rind; kumquats; raisins; currants. For an exotic touch, or for the adventuresome, serve candied violets or Bombay duck. The latter is a dried fish you can buy in specialty shops or in a gourmet-food department.

To complete your menu for a curry buffet, you naturally want a beverage and dessert. In India, where alcohol is not used, the favorite hot beverages are coffee and tea. In Kashmir and Bombay the tea that is served is very often spiced-flavored with crushed cardamom or mint. If your preference is for a cold drink, choose any fruit juice-tomato, orange, pineapple, apple, sweetened lime, or a combination of juices. You will find them most refreshing with curry served plain or with soda. Among Westerners, who are not restricted in their choice of beverage, beer or ale is considered perfect with curry.

The dessert for a curry dinner should be a light one. Chilled raw fruit is a natural-melons, pineapples, bananas. Your selection is limitless. Another possible perfect ending to your meal might be a simple fruit-flavored sherbet or ice cream.

THE END

## AMERICAN HOME RECIPES

 Curry(pictured in color on pages 48 and 49)


Diced onion? Easy. Cut off one end of a peeled onion. Cut the exposed surface so it is in tiny squares. Cut into thin slices crosswise and it will fall into cubes.



## Lie to your friends

... just a little. Let your friends think you were the master chef who blended the tiny buds of garlic, oregano,
peperone rosso so expertly. After all, this is the Italian dressing that couldn't be better even if you made it yourself.

Wish•Bane


What makes a perfect cocky? Ask the milk-and-cooky small-fry set. Or think back to the days when your own small fist got stuck in the cooky jar. Would you give your own sweet tooth for an old-fashioned cooky flavored with orange juice, peppermint, or raisins? Are you a push-over for peanuts, pecans, almonds, or chopped walnuts? Have a nostalgic yen for oatmeal, ginger, or molasses? They're all here-all-time favorites with youngsters and oldsters alike. Whip up a batch in a breeze!

## COOKY NOTES AND TIPS

When a recipe says soft butter or margarine, it means that you should be able to cream the shortening easily. The best way to get it to this stage is to let it stand at room temperature for a short while.

If you have only one cooky sheet and need more, you can do this:

1. Turn a baking or roasting pan upside down and drop the cooky dough on the bottom.
2. Cut a piece of heavy aluminum foil the same size as your cooky sheet. Then while one batch bakes, you can drop cooky dough onto the foil and it will be ready to slide onto the cooky sheet after you have removed the baked cookies.

Use a spatula-a broad one for larger cookies-to transfer baked cookies to wire racks. Cool them in a single layer-don't stack them.

If you need additional racks, you can use the rack from a steamer or Dutch oven, the grid from the broiler pan, or the large trivets and racks from table ovens or broilers.

Cookies that are pressed down with a glass can be made pretty. Choose a glass or footed goblet that has an incised design on the bottom or, look around your kitchen-see whether you have a glass jar with a fancy designed top or cover. Invert it and use it to press down the dough.

## LEMON CRISPS

Preparation time: 15 min . / Baking time: $\mathbf{1 2 - 1 5} \mathbf{~ m i n}$.
$21 / 2$ c. sifted all-purpose flour; $1 / 2 \mathrm{tsp}$. baking powder; $1 / 4 \mathrm{tsp}$. salt; $3 / 4 \mathrm{c}$. soft butter or margarine; 1 c. sugar; 1 egg; 1 egg yolk; 1 tbs. grated lemon rind; 3 tbs. lemon juice; butter; sugar.

Set oven at moderate ( $375^{\circ}$ F.). Sift flour, baking powder, and salt together. Beat butter or margarine, 1 cup sugar, egg, egg yolk, lemon rind and juice together in medium-sized bowl until light and fluffy; mix in sifted dry ingredients. Pinch off small pieces of dough; roll gently between palms of hands into balls about 1 inch in diameter. Place about 2 inches apart on lightly greased cooky sheets. Butter bottom of water tumbler; dip in sugar; press balls of dough down carefully until they are about $1 / 8$ inch thick. Bake 12 to 15 minutes. Transfer to wire racks with spatula; cool. Makes about 3 dozen cookies.

## DOUBLE PEANUT CHUNKIES

Preparation time: 15 min . / Baking time: $\mathbf{1 0 - 1 2} \mathbf{~ m i n}$.
$11 / 3$ c. sifted all-purpose flour; $1 / 2$ tsp. baking powder; $3 / 4$ tsp. baking soda; $1 / 4 \mathrm{tsp}$. salt; $1 / 2 \mathrm{c}$. soft butter or margarine; $2 / 3 \mathrm{c}$. cream-style peanut butter; $1 / 3$ c. granulated sugar; $1 / 2$ c. brown sugar, firmly packed; 1 egg; 1 c . finely chopped peanuts.*

Set oven at moderate ( $375^{\circ}$ F.). Sift flour, baking powder, baking soda, and salt together. Beat butter or margarine, peanut butter, sugars, and egg in medium-sized bowl until light and fluffy; mix in sifted dry ingredients. Pinch off small pieces of dough; roll gently into cylinders between palms of hands. Roll in chopped peanuts to coat well. Place about 2 inches apart on lightly greased cooky sheets; press down slightly with spatula. Bake 10 to 12 minutes. Transfer to wire racks with spatula; cool. Makes about 2 dozen cookies.
*If peanuts are salted, wash with warm water and dry on paper towels.

Preparation time: 20 min . /Baking time: $\mathbf{1 2 - 1 5} \mathbf{m i n}$.
2 c. sifted all-purpose flour; $1 / 4 \mathrm{tsp}$. salt; 1 c. soft butter or margarine; $1 / 2$ c. brown sugar, firmly packed; 2 egg yolks; 1 tsp. vanilla; 2 egg whites, slightly beaten; 2 c . finely chopped nuts; preserves or jellies.

Set oven at moderate ( $350^{\circ}$ F.). Sift flour and salt together. Beat butter or margarine, sugar, egg yolks, and vanilla in medium-sized bowl until light and fluffy. Work in sifted dry ingredients; mix until smooth. Pinch off small pieces of dough; roll gently between palms of hands to form balls about 1 inch in diameter. Dip in egg white then in chopped nuts; place about 2 inches apart on ungreased cooky sheets. Flatten cookies slightly with palm of hand; make indentation in center of each with thumb. Bake 12 to 15 minutes, or until set. Transfer to wire racks with spatula; cool. Fill center of cooled cookies with bright bits of preserves or jellies. Makes about $31 / 2$ dozen cookies.

## OLD-FASHIONED SUGAR COOKIES

Preparation time: $\mathbf{2 0} \mathrm{min}$. Baking time: $\mathbf{1 0 - 1 2} \mathbf{~ m i n}$.
$31 / 2$ c. sifted all-purpose flour; $21 / 2 \mathrm{tsp}$. baking powder; $1 / 2 \mathrm{tsp}$. salt; 1 c . soft butter or margarine; $11 / 2 \mathrm{c}$. sugar; 2 eggs $; 3$ tsp. vanilla; butter; sugar.

Set oven at hot ( $400^{\circ} \mathrm{F}$.). Sift flour, baking powder, and salt together. Beat butter or margarine, sugar, eggs, and vanilla in medium-sized bowl until light and fluffy; add sifted dry ingredients gradually; blend thoroughly. Pinch off small pieces of dough; roll between palms of hands into balls about 1 inch in diameter; place about 2 inches apart on lightly greased cooky sheets. Butter bottom of water tumbler; dip in sugar; press balls of dough down carefully until they are about $1 / 8$ inch thick. Bake 10 to 12 minutes or until edges are golden. Transfer to wire racks with spatula; cool. Makes about 4 dozen cookies.
fresh orange cookies: Prepare dough as for Sugar Cookies, omitting vanilla. Add 1 tablespoon grated orange rind and 2 tablespoons orange juice. Shape into 1 -inch balls; roll in granulated sugar; press down with tumbler. Bake and cool as above. Decorate with Orange Frosting, if desired: Blend $1 / 4$ cup soft butter or margarine, 2 cups sifted confectioners' sugar, 2 tablespoons orange juice, and a few drops of yellow food coloring until of good spreading consistency.
sEMI-sweets: Prepare dough as for Sugar Cookies. Chop 1 package ( 6 oz .) semi-sweet chocolate pieces fine; stir into dough. Shape and bake as above. (If you wish to make these with only half the dough, use $1 / 2$ package ( 3 oz .) semi-sweet chocolate pieces, finely chopped.)
Other variations: Add 1 cup chopped nuts or $1 / 2$ cup raisins and $1 / 2$ cup chopped nuts to Sugar Cooky dough. Bake and cool as above.

## GRANDMA'S GINGERSNAP LEAVES

Preparation time: $\mathbf{2 0} \mathbf{m i n}$. / Baking time: $\mathbf{1 2 - 1 5} \mathbf{~ m i n}$.
$21 / 2$ c. sifted all-purpose flour; 2 tsp. ground ginger; $1 / 4$ tsp. ground cloves; $1 / 4$ tsp. salt; $1 / 3$ c. soft shortening; $3 / 4$ c. sugar; $1 \mathrm{egg} ; 1 / 2$ c. molasses; 2 tsp. baking soda; 1 tbs. hot water; sugar.

Set oven at moderate ( $350^{\circ}$ F.). Sift flour, ginger, cloves, and salt together. Beat shortening, $3 / 4$ cup sugar, egg, and molasses together in medium-sized bowl until light and fluffy. Combine baking soda and water; stir into creamed mixture; mix in sifted dry ingredients. Pinch off small pieces of dough; roll between palms of hands into cylinders; taper one end to a point; dip in sugar to coat; place on greased cooky sheet. Press down carefully with spatula. Make leaf markings with wooden pick. Bake 12 to 15 minutes. Makes about 3 dozen cookies.

## HIGHLAND OATMEAL COOKIES

Preparation timet $\mathbf{1 5} \mathbf{~ m i n}$. / Baking time: $\mathbf{1 2 - 1 5} \mathbf{~ m i n}$.
1 c. sifted all-purpose flour; $1 / 2$ tsp. salt; $1 / 2$ tsp. baking soda; 1 c. soft butter or margarine; 1 c. brown sugar, firmly packed; $1 / 2$ c. granulated sugar; 1 egg $; 2$ tsp. vanilla; $1 / 4$ c. water; $1 / 2$ e. chopped nuts; $1 / 2$ c. raisins; 3 c . rolled oats; pecan halves.

Set oven at moderate ( $350^{\circ} \mathrm{F}$.). Sift flour, salt, and baking soda together. Beat butter or margarine, sugars, egg, and vanilla until light and fluffy. Add sifted dry ingredients alternately with water, blending thoroughly after each addition. Stir in nuts and raisins; add and stir in rolled oats 1 cup at a time; mix well. Drop from tip of teaspoon, about 2 inches apart, onto lightly greased cooky sheets. Press a pecan half into the top of each cooky. Bake 12 to 15 minutes. Transfer to wire racks with spatula; cool. Makes about 4 dozen cookies.
(continued)


## "Now?"

How long can a fellow hold out against that aroma, the tender white chicken meat, the firm, delicious rice? This is Lipton Chicken Rice soup, the one that tastes like Mother just cooked it. All Lipton soups taste that way.



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## (continued)

FUDGIES
Preparation time: $\mathbf{1 5} \mathbf{m i n}$. / Baking time: $\mathbf{1 0} \mathbf{0} \mathbf{5 2}$ min.
$31 / 2$ c. sifted all-purpose flour; $1 / 2$ tsp. baking powder; $1 / 2 \mathrm{tsp}$. baking soda; $1 / 2 \mathrm{tsp}$. salt; $3 / 4 \mathrm{c}$. soft butter or margarine; 1 c . brown sugar, firmly packed; $1 / 2$ c. granulated sugar; $2 \mathrm{eggs} ; 2$ tsp. vanilla; 4 sq. unsweetened chocolate, melted; $1 / 4 \mathrm{c}$. milk.

Set oven at moderate ( $350^{\circ} \mathrm{F}$.). Sift together flour, baking powder, baking soda, and salt. Beat butter or margarine, sugars, eggs, and vanilla in medium-sized bowl until light and fluffy; stir in chocolate. Add sifted dry ingredients alternately with milk, blending thoroughly after each addition. Drop dough by rounded teaspoonfuls, about 2 inches apart, onto lightly greased cooky sheets. Bake 10 to 12 minutes. Transfer to wire racks with spatula; cool. Makes about 3 dozen cookies.
NUT FUDGIES: Stir 1 cup finely chopped walnuts or pecans into dough. Drop from teaspoon onto cooky sheets and bake and cool as above. peppermint chocolate sandwiches: Pinch off small piece of dough; roll into balls and place on cooky sheets about 2 inches apart. Press cooky dough down with buttered, sugared tumbler until about $1 / 8$ inch thick. Bake and cool as above. Put two together with Pink Peppermint Frosting: Blend $1 / 4$ cup soft butter or margarine, 2 cups sifted confectioners' sugar, 2 tablespoons milk, $1 / 4$ teaspoon peppermint extract, and a few drops red food coloring until of good spreading consistency.

## SNOWDROPS

Preparation time: 15 min . / Baking time: $\mathbf{1 2 - 1 5} \mathbf{~ m i n}$.
2 c . sifted all-purpose flour; $1 / 4 \mathrm{tsp}$. salt; 1 c . butter or margarine; $1 / 2 \mathrm{c}$. sifted confectioners' sugar; 1 tsp. vanilla; confectioners' sugar.

Set oven at moderate ( $350^{\circ} \mathrm{F}$.). Sift flour and salt together. Beat butter or margarine, sugar, and vanilla in medium-sized bowl until light and fluffy. Work in sifted dry ingredients gradually until mixture is smooth. Pinch off small pieces of dough; roll gently between palms of hands to form balls about 1 inch in diameter. Place about 1 inch apart on ungreased cooky sheets. Bake 12 to 15 minutes, or until edges are light golden brown. Do not overbake or allow cookies to become brown. Transfer to wire racks with spatula; set rack on large piece of wax paper. Cool cookies slightly; sprinkle with confectioners' sugar. Let cookies cool completely; sprinkle generously with additional confectioners' sugar. Makes about $31 / 2$ dozen cookies.
ALMOND CRESCENTS: Stir 1 cup ground almonds into creamed butter or margarine mixture; add flour mixture. Roll small pieces of dough gently into cylinders; shape into crescents. Proceed as for Snowdrops.

## NEW ORLEANS PECAN BARS

Preparation time: 20 min . / Baking time: $\mathbf{3 5} \mathrm{min}$.
1 c . sifted all-purpose flour; $1 / 4 \mathrm{tsp}$. baking powder; $1 / 2 \mathrm{c}$. softened butter or margarine; $1 / 3$ c. brown sugar, firmly packed; $1 / 2$ c. finely chopped pecans; 2 eggs; $3 / 4$ c. dark corn syrup; $1 / 2$ c. brown sugar, firmly packed; 3 tbs. flour; $1 / 2 \mathrm{tsp}$. salt; 1 tsp. vanilla; 1 c. coarsely broken pecans.

Set oven at moderate ( $350^{\circ} \mathrm{F}$.). Combine 1 cup flour, baking powder, butter or margarine, $1 / 3$ cup brown sugar, and $1 / 2$ cup chopped pecans. Work mixture until it is crumbly; press into lightly greased $71 / 2 \times 111 / 2 \times 2$ inch baking pan. Bake 10 minutes. Beat eggs well; add corn syrup, $1 / 3$ cup brown sugar, 3 tablespoons flour, salt, and vanilla. Pour over baked layer in pan; sprinkle with remaining 1 cup pecans; bake an additional 25 minutes. Cool; cut into bars. Makes 16 bars.

## SOFT MOLASSES COOKIES

Preparation time: 20 min. / Baking time: 10 min.
$21 / 2$ c. sifted all-purpose flour; 1 tsp . ground ginger; 1 tsp . cinnamon; $1 / 4$ tsp. salt; $1 / 2$ c. softened butter, margarine, or shortening; $1 / 2$ c. sugar; $1 / 2$ c. molasses; 1 egg; 2 tsp. baking soda; 2 tsp. hot water; $1 / 4$ c. cold water; $1 / 2 \mathrm{c}$. raisins.

Set oven at hot ( $400^{\circ} \mathrm{F}$.). Sift together flour, ginger, cinnamon, and salt. Beat shortening, sugar, molasses, and egg together in medium-sized bowl until light and fluffy. Dissolve baking soda in hot water; stir into shortening mixture. Add sifted dry ingredients alternately with cold water; beat until blended; stir in raisins. Drop from tip of teaspoon, about 3 inches apart, onto lightly greased cooky sheets. Bake 10 minutes. Transfer to wire racks with spatula. Makes about 3 dozen cookies.
(continued)


## (continued)

## TWO-TONED BROWNIES

Preparation time: $\mathbf{1 5} \mathbf{~ m i n}$. / Baking time: $\mathbf{3 0 - 3 5} \mathbf{~ m i n}$.
1 c. butter or margarine; 2 c. brown sugar, firmly packed; 3 eggs; 2 tsp. vanilla; 2 c . sifted all-purpose flour; $1 / 2 \mathrm{tsp}$. salt; $11 / 2 \mathrm{tsp}$. baking powder; 1 c. coarsely chopped walnuts or pecans; 2 sq. chocolate, melted.
Set oven at moderate ( $350^{\circ} \mathrm{F}$.). Melt butter or margarine; beat in sugar; cool slightly; beat in eggs and vanilla. Sift flour, salt, and baking powder


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together; stir into sugar mixture; add nuts. Divide batter in half; blend melted chocolate into one half. Spread chocolate mixture in greased $71 / 2 \times 111 / 2 \times 2$-inch baking pan. Spread remaining half of batter carefully on top of chocolate layer. Bake 30 to 35 minutes, or until done. Cool; cut into bars; makes 16 bars.

## PERSIAN SWEETS

Preparation time: $\mathbf{2 0} \mathbf{m i n}$. / Baking times $\mathbf{3 0} \mathbf{m i n}$.
1 c. sifted all-purpose flour; 1 c. sugar; 1 tsp . baking powder; $1 / 4 \mathrm{tsp}$. salt; 3 eggs; 1 tsp. grated orange rind; 2 tbs. orange juice; 1 c. chopped dates; 1 c. chopped walnuts; sugar.
Set oven at moderate ( $350^{\circ} \mathrm{F}$.). Sift together flour, sugar, baking powder, and salt. Beat eggs in medium-sized bowl until thick and lemon-colored; stir in sifted dry ingredients, orange rind and juice, dates, and nuts. Pour into greased $71 / 2 \times 11^{1} / 2 \times 2$-inch baking pan. Bake 30 minutes, or until cake tester inserted in center comes out clean. Cool slightly. Cut in fingerlength pieces; roll in sugar. Makes about 3 dozen.

## APRICOT MERINGUE BARS

## Preparation time: $\mathbf{2 0} \mathbf{m i n}$. Baking time: $\mathbf{4 0} \mathbf{~ m i n}$.

$1 / 2$ c. soft butter or margarine; $1 / 2$ c. sugar; 2 egg yolks; $11 / 4$ c. sifted all-purpose flour; 1 c. apricot preserves; 2 egg whites; $1 / 3$ c. sugar; 1 c . finely chopped walnuts.
Set oven at moderate ( $350^{\circ} \mathrm{F}$.). Blend together butter or margarine, $1 / 2$ cup sugar, and egg yolks; work in flour. Lightly flour hands; pat mixture into well-greased $71 / 2 \times 111 / 2 \times 2$-inch baking dish. Bake 15 minutes; remove from oven; spread evenly with preserves. Beat egg whites until foamy; gradually beat in $1 / 3$ cup sugar; continue beating until peaks form; fold in nuts. Spread carefully over preserves. Return to oven; bake 25 minutes. Cool; cut into bars. Makes about 16 bars.

## STORING AND FREEZING COOKIES

Crisp, thin cookies should be stored in a canister with a loose-fitting cover. In damp weather, if cookies soften, they can be freshened by heating in a slow oven ( $300^{\circ} \mathrm{F}$.) for about 5 minutes.

Keep soft cookies in an airtight container-one with a tight-fitting cover. A piece of apple, orange, or bread, put in with the cookies will keep them from drying out. Remember to replace it frequently. You may want to wrap soft cookies individually, then store.

Bar cookies may be stored in the pan if it is covered tightly.
To freeze cookies, make, bake, and cool them thoroughly according to the recipe. Cover a piece of cardboard with foil or wax paper, place the cookies on it, then place in a plastic bag or cover with plastic wrap. They may also be packed carefully in freezer bags, boxes, or plastic containers. It's best to choose a sturdy container for fragile cookies and to put crumpled foil, wax paper, or plastic wrap between the cookies to protect them.

If cookies are to be frosted or decorated with preserves or jellies, they should be frozen plain and decorated after thawing. Thaw unwrapped cookies at room temperature about 15 minutes.

THE END

## ODE TO AN OLD-FASHIONED ATTIC

Some people have houses with true center halls, And views that are oh, so dramatic, Intercom systems and ovens in wallsBut I've got an old-fashioned attic.
Some people have houses with sliding glass doors, Disposers and barns with a paddock, Indirect lighting and travertine floorsBut I've got an old-fashioned attic.
How people with attics you pull down on chains Exist is to me enigmatic,
And what modern playroom can beat, when it rains,
A fabulous old-fashioned attic?
Oh, I love new ranches and sensible splits,
And A-frames on the Adriatic;
Houses with atriums thrill me to bits-
But where's the old-fashioned attic?
Maybe my Mother was scared by a trunk
And it was all too traumatic,
But I'm emphatic . . . fanatic . . . ecstatic
About a good old-fashioned attic!
Jeanne Lamb 0'Neill


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Pantry storage eliminates wall cabinets in this California family room kitchen. In their place are expansive glass windows. The food-preparation area, incorporating three different workable counter heights, includes the under-counter oven, a handy desk, and a unique surface cooking top. When open, the top has a self-contained exhaust system hidden in the shield-closed, the smooth surface can be used as addi-
tional counter space. Adjacent is the cleanup and refrigeration center. One wall cabinet has been installed here, giving additional storage space to the very large built-in pantry. Counters in contrasting colors are easy-to-clean laminated plastic. They separate the work area from the raised snack bar. Efficient laundry area is behind folding doors and located away from the food-preparation and eating area.

## VIRGINIA T. HABEEB Wiver gitilutel INOI VIIEIEII?

We've always believed that form should follow function in a kitchen. The best design and arrangement are those that work well for you. So why be stymied by any preconceived notions of what is and what isn't good kitchen design? For example, must your kitchen walls always be ringed by wall cabinets? Do all the counters have to be 36 inches high? Should the oven always be placed in a wall at a conventional height? We give a resounding "no" and we've these two handsome kitchens to prove our point. Wall cabinets have been replaced by large, pantry-type storage areas; counters are varied in height; ovens are built in under the counters at heights preferred by the homemaker.

If you are building or remodeling, consider a centrally located pantry. It will provide an abundance of space for utensils, cleaning supplies, dinnerware, and groceries. At the same time it will allow you to devote your walls to attractive paintings, or you can use this space for additional windows. (Factory-built utility cabinets are a good way to get storage space, used alone, or as a supplement to wall cabinets.)

If you find that working at a counter that's $291 / 2$ inches high is the perfect height to prepare meals without stooping, by all means lower the work counter as you see in the kitchen at right. If a counter can double in brass as a snack bar, raise it as you see at the left.

Your dream kitchen may include a built-in oven-but it doesn't have to go in a wall. At left it's under the counter, the other, under the cooking top.

Our point is-design your kitchen for you and forget about convention!


Located in the heart of Chicago, this eat-in kitchen is part of a row house-thus the necessity of frosted glass windows. In lieu of a view the cabinet-free walls are attractively decorated. The 36 -inch-high cleanup center and $291 / 2$-inch-high food-preparation center are topped with hard maple. Salads can be chopped or bread sliced right on the counters. The range and barbecue area is grease- and fume-protected by an enormous hood and exhaust system and surrounded by easy-to-clean white mat-finish fire brick.


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tray. Beat egg whites and salt until foamy; gradually beat in $1 / 3$ cup sugar; beat until stiff peaks form. Fold in lemon rind and juice; fold in whipped cream. Pour into crumb-lined tray; sprinkle with reserved crumbs. Freeze 2 to 3 hours, or until firm. Slice or cut into wedges. Makes 6 servings.

## LEMON SNOW PUDDING WITH CUSTARD SAUCE

1 envelopeunflavored gelatin $11 / 4 \mathrm{c}$ c. cold water
$1 / 2$ c. sugar
$11 / 2 \mathrm{tsp}$. grated lemon rind $1 / 4$ c. lemon juice
2 egg whites
$1 / 4$ c. sugar
Sprinkle gelatin over water in saucepan; add $1 / 2$ cup sugar; heat until gelatin and sugar are melted; remove from heat. Add lemon rind and juice. Chill until mixture begins to thicken. Beat egg whites until foamy; gradually add $1 / 4$ cup sugar and beat until peaks form. Fold into gelatin mixture. Pour into 1-quart mold; chill until set. While gelatin sets, prepare Custard Sauce: Heat 1 cup milk in top of double boiler just until bubbles appear around edge. Beat 2 egg yolks slightly; beat in 2 tablespoons sugar and $1 / 8$ teaspoon salt. Add the hot milk slowly, stirring constantly. Return to top of double boiler; cook over hot, not boiling water, stirring constantly, until mixture thickens and coats spoon. Remove from heat; pour into bowl; cool. Stir in $1 / 2$ teaspoon vanilla; cover; chill. Unmold gelatin onto serving plate. Serve with the sauce. Makes 4 servings.

## LEMON ANGEL PIE <br> MERINGUE CRUST

3 egg whites
$1 / 4$ tsp. salt
$1 / 4 \mathrm{tsp}$. cream of tartar
1 c . sugar
$1 / 2 \mathrm{tsp}$. vanilla
Heat oven to very slow $\left(275^{\circ} \mathrm{F}\right.$.). Combine egg whites, salt, and cream of tartar in mixing bowl; beat until foamy. Add sugar slowly; beat until meringue stands in stiff peaks and sugar is dissolved. Fold in vanilla. Spread meringue in lightly greased 9 -inch pie pan. Do not go over the edge. Bake

1 hour, or until delicately browned. While still warm, loosen the crust with a spatula. Cool thoroughly before pouring in filling.

| FILLING |  |
| :--- | :--- |
| $2 / 3$ c. sugar | $1 / 8$ tsp. salt |
| 1 tbs. cornstarch | 1 c. water |

3 egg yolks, slightly beaten 2 tsp. grated lemon rind $1 / 4$ c. lemon juice $1 / 2$ c. heavy cream, whipped
Combine sugar, cornstarch, salt, and water in saucepan; add egg yolks; mix well. Cook over medium heat, stirring
constantly, until mixture thickens; lower heat; cook and stir 5 minútes. Remove from heat; add lemon rind and juice; cool. When cold, fold in whipped cream. Pour into cold meringue shell; chill at least 4 hours before serving. Makes 6 to 8 servings.

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## SHOPPING

## INFORMATION

## BRIGHTEST LITILE HOUSE IN THE WEST

 Page 43: Wall hanging-Evelyn Ackerman Design. Kable, sofa-Herman Miller. Lighting fixture-Mati 44: Table chimported by Morrison Imports. Page 44: Table, chairs-Watertown Table Slide Corp.Decorative wall unit-Ello. Light group over tableImported from Japan by Morrison Imports. Decorative accessories-Villa Iris. Page 45 (center): Teak bunk bed-Scandia Craft Enterprises. Storage unitEllo. Phonograph - Macy's. Page 45 (bottom): Patio
THE ONLY PLACE WE
THE ONLY PLACE WE CAN GO IS UP WHY BE STEREOTYPED IN YOUR
WHY BE STEREOTYPED IN YOUR KITCHEN? Page 64: Range-Jenn Air. Oven-Waste King Uni-
versal. Flooring-Armstrong. Washer and dryerFrigidaire. Television-Zenith. Counter top-Formica. Towels-Martex. Rug-Callaway Mills. Spice set-Village Hardware. Hanging blue rooster-House of Sweden. Bulletin board-Holmans. Family room kins-Casa Manana. Place mats, flatware-Dansk Glasses-Peruvian Shop. Large blue plate-Arabia Bar stools-Rattan by Tropical. Curtains-M. Raggett. Sugar bowl, creamer-Schmid Porcelain. Salad Edith Dinkin. Casserole-Prizerware. Page 65: Floor-ing-Amtico. Range-Thermador. Barbecue-Majestic Char Grill. Hood, cabinets-Custom-made from Mueller Ornamental Iron Works. Sink- Kohler. Lighting fixtures-Markstone. Refrigerator, dishwasherMetal Folding Furniture Co. Counter tops-Michigan Maple Block Co. Tile Walls-American Olean Tile Co. Salad bowl, place mats, black glasses, blue
glasses, casseroles, stainless flatware, yellow vase canister, yellow striped bowl, spice rack, black casseroleUtility Products Co. Orange canisters, yellow salt and pepper shakers-Sam Mann. Knives-Flint. Nap kins-Grace Herbst Shop. Black box-Betty Lotz Interiors. Wooden salt and pepper shakers-Frank
Ryan. Mortar and pestle-Caledonian Inc. Fork, spoon-Dansk. Dishes-Arabia.

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## Condominiums

## (continued from page 47)

The significance of this new method of ownership will not be overlooked, either, by quite a few people who now own homes in the suburbs. Many couples whose children have left home have grown tired of mowing lawns and fighting bumper-to-bumper commuting traffic. They may until now have put off moving to town because they resisted the ideas of renting or buying shares of stock in a co-op. Now they have a pleasing alternativethey can own an apartment the same way they have owned their home, with the same safeguards and psychological satisfactions.

Another group to whom condominiums will appeal are young couples or individuals who ordinarily rent. Now they may prefer buying a condominium, watching their investment build up, and planning to sell later with enough gained to make a down payment on a house.

These are only a few of the possibilities opened up with this remarkable method of ownership. Much can be expected of this concept which allows a family to get title to a slice of air several stories above ground it doesn't own. The proponents of condominiums see in them a logical answer to the problems of expanding population and skyrocketing costs of urban land. In more and more cities, the only place we can go is up-and condominium apartments can be sold at prices to fit the incomes of most families. There is even some talk that low-income families may eventually be able to move out of slums to condominiums where their opportunity to be owners would help them set new life goals.

Already it is clear that condominiums are meeting a strong demand. They are selling fast in California Hawaii, Arizona, Illinois, Florida, and elsewhere. Some are in tall apartment buildings, some in town-house projects, some in retirement communities. Some are luxury units, some mediumprice FHA-financed units. (Congress has given the FHA authority to insure condominium mortgages.) Some are large projects, others have as few as three or four units-and in some projects, rental units have been mixed with condominium sale units.

Special state legislation for condominiums is not absolutely necessary, but it is desirable as it would standardize the procedure of setting up a condominium and resolve many issues which would otherwise be subject to interpretation and dispute. Also the constitution and revenue laws of individual states may make such laws necessary so that property may be assessed and taxes levied.

So if you haven't heard about condominiums until now, you can be sure that before long everyone will know about them, for these for-sale projects with the odd-sounding name will be appearing in many cities. THE END

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## Wells

tell you he drilled into rock, when he actually stopped short of it in clay. He may drill a crooked hole that will be hard to repair later. He may neglect the all-important safety seal that is needed to guard your family's health.

Where to drill. Public health authorities say that it is unsafe in most places to locate a well nearer than 50 to 75 feet to any septic tank-yours
or your neighbors'. And in some porous soils a 250 -foot or more gap is urged. It's wise, also, to drill on a slope above the septic tank.
What should your well cost? That depends on how deep water lies and how fast your driller can get down to it. Some rocks are easier to drill than others. Sand and clay wells are both quickly drilled but are not so inexpensive as you might think because they must be lined with tile or pipe.

To get down to water, you usually pay a flat rate per foot, or one that increases slightly with depth. In many states costs vary between $\$ 3$ and $\$ 10$ per foot. A figure in common use in some areas is $\$ 4$. At this rate, if water lies 100 feet down, your driller gets $\$ 400$. Now add roughly the same amount for pump, wiring, motor, wellscreen (if used), piping, sanitary seals, cement grouting, and the inside liner known as the casing. Your well may cost $\$ 700$ to $\$ 850$. By the same rule of thumb, a well that costs $\$ 1000$ to sink might cost $\$ 1600$ to $\$ 1800$ complete.

You may live in an area where special conditions permit very inexpensive drilling. In certain shale areas, wells have been sunk for $\$ 1.25$ per foot. Another exception may be an area where you can use a driven well.

Otherwise it makes little difference whether your well is drilled through rock or (by digging, boring, or jetting methods) through sand, clay, or gravel. Costs run about the same.

How deep should you go? Take your driller's advice, but have a clear understanding that he'll need your permission before drilling below, say, 200 feet. Otherwise you may get a bill for 500 feet of drilling you didn't expect.

Within your financial limits, let your driller go as deep as necessary to get pure water. It may be false economy to have him stop at the first inferior flow. You'll only have to call him back later.

A reputable driller won't go deeper than necessary. There is, in every locality, a level at which drillers usually quit trying. They've learned that water just isn't there.

How much water will you need? This is another factor in determining how deep to go. Today's homes need 50 or 75 gallons per person to supply such equipment as dishwashers and clothes washers. And if you have a pool, lawn sprinklers, or entertain frequently, make a further allowance. Also remember that your well must be able to deliver most of this water in two peak periods; morning and evening.

In most areas, a well that delivers seven gallons a minute for 10 minutes without slowing down is considered good. If it delivers seven gallons indefinitely, it's excellent. A fine well may pump 10 to 25 gallons a minute which will keep a dishwasher, clothes washer, and shower going all at once.

Can you get by with less? Many people get along on only two gallons or less a minute. The secret is reserve storage. Even a one-gallon-a-minute well can produce 1440 gallons of water a day, if you have a place to store it. Several places you can store it are:

1. In a bigger pressure tank. Countless wells are still being equipped with only small conventional (42-gallon) pressure tanks. Since the tank also must hold air, the amount of water you can get from it may not exceed 20 gallons. For such a tank you pay about $\$ 30$. Installing a 250 -gallon tank will cost from $\$ 125$ to $\$ 220$ and will greatly boost your reserve.


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2. In the well itself. A well that's six inches in diameter holds roughly one gallon per foot. Let's say you have a 100 -foot well, that water normally stands 20 feet from the top, and that your submersible-type pump is 10 feet from the bottom. You now have a 70 -foot "working column" of water, or 70 gallons, that your pump can at any time boost up into your house.
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Choosing the pump. This should come last after the driller sees what kind of well he has because a pump must be matched to the well. There are many kinds of pumps and to install the wrong one can run up your electric bill, damage well and pump, and fill the pipes with air. Rely only on a skilled driller, plumber, or pump man to recommend the right type.

Suppose you get no water at all? If this should happen and the well man hands you a bill for $\$ 1000$, do you have to pay? Usually. If this seems unfair, remember that drilling is a costly operation. The margin of profit is small. And there's still no sure way to know that water will be found.

Suppose you get polluted water? When water is hit, the driller should have it tested for chemicals and bacteria. If there is contamination, some drillers prefer to seal off the area and drill deeper, hoping to find pure water. This sometimes works but often it doesn't. Hence, other drillers say, "If you hit pollution, abandon the well and try another location."

You can, of course, install decontaminating equipment such as chlorinators that cost $\$ 300$ to $\$ 600$. Sometimes pollution can be eliminated by discovering the source.
All wells should be tested once a year. Usually this is done by colleges, state health departments, or commercial laboratories. Costs vary from nothing to $\$ 15$.
Will your driller guarantee you water? In some water-rich areas, yes. Usually, no. Any reputable man will guarantee good material and workmanship.
Should you sign a contract? By all means; it should cover the following:

- Location, minimum and maximum depths to be drilled, type of well, and diameter. Many modern wells are four inches in diameter, but six inches is often preferred. Wider wells store more water and are easily serviced.
- Quality materials. Check carefully to see what is considered best in your area. Some drillers use only powerful "19-pound" pipe; others use pipe only half that weight and strength.
- Itemized cost estimates for drilling
(per foot), casing, wellscreen (when used), sealing, and cement grouting. - How your well will be sealed to keep out pollution. Some drillers use cement grouting, some don't.
- Cost of developing (a special process that improves the yield of some sand or gravel wells).
- Testing. Besides a bacteria test, you'll want a four-hour pump test to make sure your well won't quickly run dry. Even better: a 12 -hour test.
- Records. Agree what records will be kept. Some drillers will keep a daily $\log$ describing subsoil and rock formations. Others report merely on materials used, depth reached, any water obtained, and any water bypassed as unsatisfactory.
Should you be present? Visit the site during the drilling which may take from a day to two weeks. If you can't go, send a representative. Know what's going on, what materials are used.

And be there when water is hit. Drillers say, "Watch the water fill the barrel, and time it with a stop watch." Know what the flow is. Otherwise, if you've picked a shoddy contractor, there's nothing to keep him from reporting a five-gallon flow from a onegallon well. Once the pump and pipes are in, it may take months to find out that you've got a poor well.

## THE FOUR KINDS OF WELLS

Dug wells, the oldest type, are usually not over 20 or 30 feet deep, and often from two to eight feet wide. Where there's lots of water they provide a good supply, but have a tendency to get low or dry up in dry months. They're not recommended today by the Public Health Department officials because they're easily contaminated, and in some areas they're banned by law.

Bored wells, usually smaller in diameter and deeper, are drilled in soft materials and are considered practical when properly constructed. Since they can go down to 100 feet they can often tap a better water supply than dug wells. A bored well may be as wide as 30 inches or as narrow as two inches-a deep, slender hole in any kind of soft earth that won't collapse during construction.
Driven wells, usually the simplest and least expensive of all, consist merely of a few sections of pipe fastened end to end and hammered deep into soft ground. The lower tip, or "well point," is usually a pipe two inches in diameter or less, screened or perforated in many places to admit water. Under right conditions a driven well will produce a large yield.
Jetted wells are a type of driven well much used in sandy areas. They are constructed by driving a pipe into the ground and forcing a jet of water down it, under pressure. The pipe then digs itself in. A jetted well may be from four to 12 inches wide and up to 100 feet deep. The pipe that drilled the well is left in the soil-and becomes the well casing. Another pipe is inserted to draw the water.

Drilled wells, usually only four to six inches in diameter, can be sunk through any kind of soil and hard rock to a depth of 1000 feet, sometimes a great deal deeper. Because they can tap sources deep within the rocks they often produce excellent water. When this water is fed, under pressure, by water flowing down from
hills or mountains (perhaps hundreds of miles away) it is known as "artesian." Occasionally the artesian pressure is great enough to force the water up into your house. Usually, however, it must be pumped-but the artesian pressure will bring it part way up in the well and save you the cost of pumping from a greath depth.

THE END


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tive front door; the evenly spaced small-paned windows; the wellproportioned roof. These are some of the features which foremost designers of traditional New England homes cite as indicators of authentic copies of this style.

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(continued) than ample. In addition to the large living room, there is a family room and a study where members of the family can pursue their own interests. The family room is a perfect spot for entertaining, with its separate front entrance which has its own walk and covered porch. Inside, there is an entryway with a closet and access to the lavatory. The family room itself opens directly to the kitchen and has a door to the back yard or terrace. The main entry hall opens to most of the rooms, thus eliminating traffic through them. This is a home any family would truly enjoy living in.

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## IN YOUR GARDEN

 (a)Make a compost bin; two ornamental sumacs; feed the lawn

Southern soils often tend to be low in organic matter, and so many gardeners find it expedient to maintain a plentiful source of compost. This is the ideal season of year to begin the construction of a compost bin. Choose an area that is apart from the garden but easily accessible to it. A simple bin might consist of treated posts enclosed by wire, or of stacked logs.
If you prefer a more durable unit, use concrete blocks set on a concrete base. Be sure to provide for internal drainage, however.
Grass clippings and residue from the vegetable garden will make good compost. Later in the fall add leaves to the heap. You can also use sawdust and other organic matter. As the ma-
terial accumulates, speed up the process of decomposition with chemical additives or a complete fertilizer. As you add new material to the compost pile, sprinkle a few handfuls of fertilizer on top of it and water in well. After the bin is filled, turn it once or twice during the winter so that the compost is mixed and aerated.
A compost bin does not have to be an unsightly fly attractant. Cover it with black plastic of either four- or six-mil thickness to eliminate any fly problems. Covering the bin will also help retain heat and water and hasten decomposition.

Camellia sasanquas and early-flowering Camellia japonicas will soon be showing color. It is advisable to
water them well during their flowering period. Camellias which are watered in the fall will suffer less winter damage than those left dry. Other plants, including azaleas and conifers, should also be watered well now in preparation for winter.

Order narcissus bulbs this month for immediate planting in the garden. They are most attractive when naturalized in wooded areas or planted in large drifts. The various narcissus do well in the South, and you should plan to try some of the more uncommon ones in addition to the trumpet varieties. The species, for instance, are very interesting bulbs and should be used more often in Southern gardens.

Tulips in general are not satisfactory here unless they have been precooled. The botanical tulips, however, such as fosteriana 'Red Empress,' and Tulipa kaufmanniana do well. They will often come back the second year with an almost equally brilliant display of bloom.

$\mathrm{H}^{\mathrm{v}}$yacinths can be used in more formal plantings as well as in masses. They will return for two or three years after planting, but are less dramatic than in the first season. Snowdrops, scillas, and many other spring-flowering bulbs should be ordered now for early fall planting.

For an unusual and lovely splash of color in the spring, plant a white Judas tree, or white flowering redbud
(Cercis siliquastrum alba). Although the redbud is common throughout the South, the white form is not often seen. It's a spectacular little tree and a showpiece in the early spring.
Two native trees that are often overlooked for landscape use are smooth sumac (Rhus glabra) and shining sumac ( R . copallina). Both bear attractive red fruit at this time of year, and a little later have bright red-and-scarlet autumn foliage. They are not poisonous, even though closely related to poison ivy and poison sumac, which has white fruit.

Southern lawn grasses will require fertilizing at this time. Feeding now increases the vigor of the grass before it goes dormant, and hastens rejuvenation in the spring. For fall feeding, use nitrogen either as ammonium nitrate, urea, or Uramite. If you plan to sow winter grass over your Bermuda lawn, cut it as close as possible before reseeding. Remove as much of the top growth as possible, seed the lawn, and water in well. Don't fertilize until the winter grass is established. You can use commercial fertilizer of 8-8-8 or 10-10-10 analysis.

You can still sow radishes and leaf lettuce in the fall vegetable garden. Try 'Bibb' or 'Buttercrunch' in coldframes and have delightful leaf lettuce all through winter. Simple coldframes might be constructed of glass sash or wire frame covered with plastic.


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## Get music lessons off to a happy start

$\mathrm{H}^{\circ}$ow often have you heard the woeful remark, "Oh, how I wish I could play the piano!" or "If only I'd listened to my parents and practiced my piano lessons-maybe I could play now!" Many children have a natural feeling and love for music and do enjoy piano lessons. They begin their lessons bubbling with enthusiasm and bursting with noble intentions. But all too often the love affair meets an unfortunate end when it comes to practicing on a sunny afternoon-when the call of the baseball diamond is much stronger than that of the piano bench!
Most parents will agree that they want their children to take lessons mostly for the youngsters' own enjoyment, not to mention the benefits to be derived from the skill later on. But in many cases, the enjoyment does fade and interest wanes after a few weeks, when practice becomes a dull chore.
The problem, then, is how to retain the child's enthusiasm for the piano, making his lessons a pleasure rather than merely a chore. One solution to the problem that has met with success is group piano instruction. Under the leadership of Dr. Robert Pace, concert pianist, head of piano instruction at Columbia Teachers' College in Manhattan, and director of the National Piano Foundation, devotees of the group method are enthusiastically spreading its philosophy. During the past thirteen years, Dr. Pace has drilled thousands of student teachers in his instruction techniques and has exposed thousands more in piano workshops across the country. The method is based on the theory that a group provides the stimulation and competition lacking in more solitary endeavors.
Group teachers plunge their students quickly into harmony, ear training, sight reading, and improvisation instead of emphasizing recital pieces and finger drills. Most groups use two or more pianos and have the students practice together on the keys with duets and quartets to sharpen sight reading and harmony skills. Usually, flash cards are used to drill the students in key signatures, and the teacher divides the group into teams to keep the competitive spirit high. Group lessons are frequently conducted by the term rather than by single lesson. This helps condition beginners to the fact that music lessons are to be an accepted part of their lives. Also, thinking in long-range terms places each lesson in better perspective. Momentary difficulties, when they occur, have less influence on the progress of youngsters in group situations.

Dr. Pace and his followers believe that, since music is a social art, a child should learn it in a social situation. Group lessons, they say, give a child the feeling that music brings him in contact with others rather than isolating him. They have found, too, that the exchange of criticism, praise, and encouragement among the students themselves is most beneficial. They also claim that a child enjoys it much more this way, he learns more, and he actually enjoys practicing!

Whether you believe in the group method or the traditional private piano instruction, here are some helpful hints to keep in mind when guiding your children and attempting to keep up their enthusiasm with their lessons. These suggestionsare applicable, of course, to the study of any musical instrument.

Practice should be scheduled at a regular time and, if possible, should not conflict with a child's other activities. He won't resent practicing if he can still play in the ball game or take a jaunt to the ice-cream parlor with the gang.

For young beginners especially, 30 minutes may be too long for a single practice session. Split the period into two 15 -minute sessions.

One idea is to schedule a short practice session before breakfast and another immediately after the youngster returns from school.

See to it that the child works on new assignments first. Pieces he knows should be treated as "dessert" and saved for last.

It is encouraging to many children if a parent is present at practice sessions. Sometimes it even works out well for a parent to take lessons at the same time the child does. If you're not exactly bursting with confidence in your musical ability, don't worry. Today's new techniques emphasize broad musicianship, and this understanding can offer valuable benefits to your musical children.

But even if the parent cannot read music, he will do well to observe the child in practice. An alert parent can detect difficulty in sight reading if the child seems to show excessive fumbling and hesitation in playing a newly assigned piece. Then he can report these trouble signs to the teacher for proper expert attention.

Never start a child's music lessons on a trial basis; at least, don't let him know he's on trial. Most children are eager to begin training. It's the parent who is likely to have reservations as to the child's chances of success. Parents frequently plant the seeds of giving up with such statements as: "We don't want to buy a piano until we know if he'll really enjoy music." Or, "I'm not sure he has any real musical talent."

Avoid threats. Don't tell a child his lessons will be stopped if he doesn't show more interest and work harder. Don't make a child practice one particular piece until he "learns it or else." If music study involves punishment, a child will consider it an enemy. For a more helpful attitude, combine your sincere interest with a firm, positive approach.

Most important, give your child a lot of warm praise and encouragement. Psychology has proved that praise works far better than punishment in teaching a child. This applies to his music instruction as well as anything else. Compliment and reward him for his achievements. Though his playing may never bear the slightest resemblance to your recording of Van Cliburn's rendition of Tchaikovsky's First Piano Concerto, never make fun of his attempts; show him that you enjoy listening to him play. Most conducive to a successful program of learning music is the happy agreement among parent, teacher, and child that he is preparing for a rewarding though sometimes difficult accomplishment that will be well worth the effort. If your child has talent and the right kind of encouraging guidance, who knows-Rubinstein and Van Cliburn may have something to worry about after all!

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The American Home Magazine, Independence Square, Phila. 5, Pa. Please send me an American Home Reader Service Kit for the home projects I have checked. I enclose $\$ 1$ for each Kit to cover the costs of mailing, handling, and printing the guide and other special editorial material.
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So far, three of these especially designed kits are available. They are The American Home Kitchen and Laundry Planning Guide, The American Home Exterior Remodeling Guide, and The American Home Bathroom Planning Guide. Each is available for $\$ 1$.

As we said in the beginning, these kits may not be exactly "nirvana in a nutshell" (actually our phrase was kitchen in a kit) but once you see them you'll have to admit they do come pretty close.

## ANTON M. KOFRANEK

If you have already seen our preceding story on atriums, you will realize that these enclosed gardens are an integral part of the home living area. They should complement the rest of your home and be a vital part of it. To accomplish this, you will have to choose and place all plantings carefully. Select trees and shrubs that will not grow too rapidly, will be attractive all year round, and will grow satisfactorily under the light conditions of your atrium. Choose flowering and foliage plants chiefly for their light requirements and their long-season attractiveness. Consider also the garden design. Would you like a Japanese or a (continued)


In Robert Davies' atrium, Belvedere, California, podocarpus,Japanese maple, dwarf pine, and weeping atlas cedar are elements of Richard Haag's skillfully executed Japanese design.

At far right, a Spanish arch frames patio designed by Christopher Arnold for John Millar in Los Altos, California. Pink geraniums, ice plants, and Martha Washington geraniums in the foreground carry out the theme. Plants on the deck provide the accents.

The tropical effect in Robert Lochner's atrium is achieved by using lush foliage plants. Shown are Fatsia japonica, tree ferns, and two Japanese maples.


DESIGNING AND PLANTING YOUR ATRIUM GARDEN


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(continued) Spanish motif, or perhaps a desert or jungle effect, or simply a conventional small garden with color throughout the season?

To achieve unity between your atrium garden and the interior of your home, place some appropriate plants just inside the rooms from which the atrium will be viewed.

If your home is of U-shaped design, without a true atrium, you can easily achieve an atrium effect by closing off the "U" with suitable fencing. In some houses, the entryway can be made to simulate an atrium by the installation of transparent fiber glass or an "egg-crate" trellis overhead. This will reduce the light intensity, but not enough to prevent your growing various foliage plants or broadleaf evergreens satisfactorily.

In warmer areas, an atrium with subdued lighting is well suited to a jungle-type garden. It follows no predetermined pattern of arrangement but should give the effect of tropical lushness. Choose green foliage plants with broad leaves and provide an occasional splash of brilliance with orchids, strelitzias, or gardenias. Add a few palms and ferns if you prefer to have a South Seas atmosphere.

In temperate areas, where frosts are not too severe, a subtropical atrium covered with fiber glass can be heated for year-round use at modest expense. If it's not convenient to extend the home heating system into the atrium, a couple of portable electric homegreenhouse heaters will be able to warm the atrium sufficiently on cool nights to prevent injury to subtropical plants and flowers.
In the cooler temperate regions, a woodsy effect can be obtained with rhododendrons, azaleas, andromedas, mountain laurels, hollies, and other broadleaf evergreens, plus a variety of smaller woodland plants. If you live in one of the cold eastern or midwestern states, you can create a woodland scene with small to medium-size pines, junipers, spruces, arborvitaes, hemlocks, yews, and other conifers, plus a few small deciduous trees or shrubs. Broadleaf evergreens need good light, though not necessarily direct sunlight, while most conifers need at least half a day's full sun.

A Japanese garden is not difficult to create because of its inherent simplicity of design. It requires few ma-terials-a small pool with goldfish, a stone lantern, and wooden fencing may be all you need. Use plants sparingly, among natural rocks or stone ornaments. Depending on your climate, you can choose from such plants as the following: aralias, aucubas, azaleas, bamboos, camellias, chrysanthemums (in pots), ophiopogon, small palms, ferns, dwarf pines, lowgrowing junipers, Japanese hollies, andromedas, and also cotoneasters. Groundcovers should be neat and trim, and might be small stones, dichondra, fine turf, or a small-leaf ivy.

An enclosed garden with a Spanish patio motif must have high light in-
tensity both for effect and for the plants you'll use in developing your theme. Hanging baskets or pottery with fuchsias, geraniums, lantanas, or begonias are most appropriate for a patio garden. Small flowering shrubs and small trees with a weeping habit suggest Spain or South America. Pave the patio area with brick or flagstone and line it with a neat border of flowering plants. Place some of the plants in colorful pots for a finishing Latin or Mediterranean touch.

High light intensity, cacti and other succulents, rocks, and sand will combine unmistakably to produce a desert garden in your atrium. In warm areas there are many true cacti to choose from and also various fleshyleaved plants like agaves, aloes, crassulas, euphorbias, haworthias, and portulacarias. In colder sections there are hardy opuntia cacti, yuccas, many sedums and sempervivums, and other small, rosette-type plants. Wellplaced clumps of grasses, such as blue fescue, are also very effective in this type of atrium garden.
Before preparing your atrium for planting, regardless of its design, be certain that the soil drains well. If it doesn't drain naturally, you'll have to install drainage tile or some other means of carrying off accumulated water. Otherwise plants will die from lack of oxygen and from excessive accumulation of salts in the soil.
If the soil is reasonably good-that is, if topsoil has been provided-you'll only need to lighten it a little with peatmoss and sand to provide a suitable growing medium for most of the plants you'll select. If it consists wholly of subsoil or fill, however, it'll be best to replace it in the areas to be planted with a mixture of topsoil, peatmoss, and sand. Most tropical foliage plants, broadleaf evergreens, and conifers grow best in a rather light, well-drained soil that contains a fair amount of organic matter and coarse sand. Cacti and other succulents are better off in an even lighter, sandier growing medium.
Feed your atrium plantings just enough to keep them green and healthy. Overfeeding, even if not harmful, will simply make them outgrow their surroundings sooner than necessary. Probably you'll find it easiest to feed them by watering with a nutrient solution prepared from one of the soluble plant foods. A standard preparation will be suitable for most plants, but use an acid food for rhododendrons, azaleas, camellias, mountain laurels, hollies, and other acidloving plants, shrubs, and trees.
Inspect your plants frequently for insects and diseases. Treatment with an all-purpose garden spray should control any that appear. If you wish to shine broadleaf plants, use only $o$ - Is prepared for that purpose-cooking and other oils are extremely harmful to plant foliage. Don't fuss with run-down, tired-looking plants, but promptly replace any that have served their purpose.
the end

Here is a listing of the trees and shrubs that are especially noted for their fall color. Many of them are also valuable for the color of their fruit.

In the data listed below, figures preceded by "HZ" refer to hardiness zones of the Plant Hardiness Zone Map, published in the January 1962 issue of The American Home. (Copies are available for 50 cents.) Heights given are those at maturity and are best used simply to distinguish between "small" and "large" trees or shrubs, since most of these plants, especially the trees, attain maturity only after many years. Colors indicated are of fall foliage; fruits are mentioned only if conspicuous.

## TREES TO PLANT <br> RED AND REDDISH TONES

Blackgum or Black Tupelo (Nyssa sylvatica)-HZ 5-9a / 90' / brilliant orange to scarlet
Cherry, Sargent (Prunus sargenti)-HZ 6-8 / 75' / vivid red
Cornelian Cherry (Cornus mas)-HZ 5-8/25 / red / scarlet fruit in late summer
Dogwood, Flowering (C. florida)-HZ 5-9 / 40' $/$ scarlet / bright red fruit in fall
Dogwood, Western (C. nuttalli)-HZ 7-9a / 75 / yellow to red / red fruit in late summer
Franklinia (Franklinia alatamaha)- $\mathrm{HZ} 6 \mathrm{~b}-9 \mathrm{a} / 30^{\prime}$ / orange to red
Hawthorn, Lavalle (Crataegus lavallei)-HZ 5-9a / 20' / bronzy red / orange to red fruit in fall and winter
Hornbeam or Ironwood (Carpinus caroliniana)-HZ 3-9 / 35' / orange to red
Maple, Amur (Acer ginnala)-HZ 3-8/20' / scarlet
Maple, Japanese (A. palmatum)-HZ 6-9 / $20^{\prime} /$ scarlet
Maple, Red or Swamp (A. rubrum)-HZ 3-9 / $120^{\prime}$ / bright red
Maple, Sugar (A. saccharum)-HZ 4-8 / $120^{\prime} /$ golden yellow through orange to red
Mountain Ash, European (Sorbus aucuparia)-HZ 3-9a / 45' / red / brilliant orange-red fruit in late summer and fall
Mountain Ash, Korean (S. alnifolia)-HZ 4-9a / 60' / orange to scarlet / orange-red fruit in fall
Oak, Black (Quercus velutina)-HZ 4b-9 / 100 / red
Oak, Pin (Q. palustris)-HZ 5-9 / 75' / scarlet
Oak, Red (Q. borealis)-HZ 4b-8 / 75 / red
Oak, Scarlet (Q. coccinea)-HZ 4b-9 / 75' / brilliant scarlet
Sassafras (Sassafras albidum)-HZ 5-9 / 60' / orange to scarlet
Shadblow (Amelanchier canadensis)-HZ 3b-9a / 60' / yellow to red
Sourwood or Sorrel Tree (Oxydendrum arboreum)-HZ 5-8/75'/brilliant scarlet
Sweetgum (Liquidambar styraciflua)-HZ 6-10a / 125' / scarlet

## YELLOW AND YELLOWISH TONES

Aspen, Quaking (Populus tremuloides)-HZ 2-7 / 90' $/$ bright yellow
Beech, American (Fagus grandifolia)-HZ 4b-8/90'/golden bronze
Beech, European (F. sylvaticus)-HZ 5-8/90' / bronze
Birch, Canoe or Paper (Betula papyrifera)-HZ 2-8/90'/yellow
Birch, Chinese Paper (B. albo-sinensis)-HZ 6-9a/90' / yellow
Birch, European White (B. pendula)- $\mathrm{HZ} 3-8 / 60^{\prime} /$ yellow
Birch, Gray or Clump (B. populifolia)- $\mathrm{HZ} \mathrm{4b-8a/30} /$ yellow
Buckeye, Ohio (Aesculus glabra)-HZ 4-8/30' / brilliant orange
Fringetree (Chionanthus virginicus)-HZ 5-9 / 30' / bright yellow
Ginkgo (G. biloba)-HZ 5-9 / 120' / brilliant yellow
Hickory, Shagbark (Carya ovata)-HZ 5-8 / 120' / golden brown
Maple, Bigleaf (Acer macrophyllum)-HZ 7-10a / 90' / bright yellow to orange
Maple, Norway (A. platanoides)-HZ 6-9 / 90' $/$ bright yellow
Pecan (Carya pecan)-HZ 6-9 / 150' / yellow
Pignut (Carya glabra)-HZ 5-8 / $120^{\prime} /$ yellow
Redbud, Chinese (Cercis chinensis)-HZ 6b-10a / 40' / yellow
Redbud, Eastern (C. canadensis)-HZ 5b-9 / 35' / yellow

## SHRUBS TO PLANT

RED AND REDDISH TONES
Azalea, Pinkshell (Rhododendron vaseyi)-HZ 5-9 / 6-9' / light red
Azalea, Royal (R. schlippenbachi)-HZ 5b-9 / 15' / yellow to crimson
Barbarry, Japanese (Berberis thunbergi)-HZ 3-10a / $7^{\prime}$ / scarlet / bright red fruit in fall Barberry, Korean (B. koreana)-HZ-5-9 / $6^{\prime} /$ deep red / bright red fruit in fall
Barberry, Purpleleaf Japanese (B. thunbergi atropurpurea)-HZ 3-10a / $7^{\prime} /$ purplish red / red fruit in fall
Black Haw (Viburnum prunifolium)-HZ 5-9 / 15'/shining red
Cranberry Bush, American (V. trilobum)-HZ $2 \mathrm{~b}-8 \mathrm{a} / 12^{\prime} /$ red / scarlet fruit in fall
Enkianthus (Enkianthus campanulatus)-HZ 5-8/30'/ orange to red
Euonymus, Compact Winged (Euonymus alatus compactus)-HZ 3b-10a $/ 4^{\prime} /$ scarlet
Nandina (Nandina domestica)-HZ $7-9 / 8^{\prime} /$ red to scarlet / red to purple fruit in fall
Nannyberry (Viburnum lentago)-HZ 3-8 / 30' / purplish red
Oregon Holly-Grape (Mahonia aquifolium)-HZ 5b-9/3'/purplish bronze
Smokebush (Cotinus coggygria)-HZ 5b-9 / 15' / yellow to orange / pinkish fruit

Sumac, Fragrant (Rhus aromatica)-HZ 4-9 / $3^{\prime}$ / yellow to scarlet
Sumac, Shining (R. copallina)-HZ 5-9 / $30^{\prime} /$ scar!et / crimson fruit in fall
Sumac, Smooth (R. glabra)-HZ 3-9 / $20^{\prime}$ / bright red / scarlet fruit in fall

## YELLOW AND YELLOWISH TONES

Apple Serviceberry (Amelanchier grandiflora)-HZ 3b-9a / 25' / yellow to orange
Fothergilla, Dwarf (F. gardeni)-HZ 6-9 / $3^{\prime} /$ yellow to scarlet
Fothergilla, Large (F. major)-HZ 6-9/9' $9^{\prime}$ yellow to scarlet
Spice Bush (Lindera benzoin)-HZ 5-9 / 15' / golden yellow / red fruit in fall Summersweet (Clethra alnifolia)- $\mathrm{HZ} 3 \mathrm{~b}-9 / 9^{\prime} /$ yellow to orange Witch hazel, Chinese (Hamamelis mollis)-HZ 6-9 / $30^{\prime} /$ bright yellow
Witch hazel, Common (H. virginiana) $-\mathrm{HZ} \mathrm{4-8/15}$ / yellow / yellow flowers in early fall Witch hazel, Vernal (H. vernalis)-HZ 5-8 / 10' / yellow


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 the house plants come indoors for the winter, and they will stay green and thrifty if you water them properly-not too much, not too little. To do the job right use a watering can with a long spout. Here is a tole pot finished in black. Stylized decoration is in multicolor. $13^{\prime \prime}$ to tip of spout. $\$ 2.95$. Frog Hollow, AH9, Box 246, Bethpage, N.Y.

GIVE HER A RING set with a sparkling Titania jewel stone. It is a man-made gem of great brilliance. Inexpensively priced at $\$ 12$ a carat, it makes a wonderful appearance when set in 14 K gold. Shown here is a two-carat stone in a classically simple 14 K gold band. $\$ 41$ complete. Other settings available. Regent Lapidary Company, PAH9, 511 East 12th St., New York 9, N.Y.


HANDS OFF hot tea pot handles and casserole lids. Use these cute Hot Holders made of percale insulated with plastic foam. Machine washable. Choice: red chick with white polka dots, pink and white striped chick, or orange and yellow pear with green leaves. Attractively lined, each is $71 / 2^{\prime \prime}$ long. $\$ 1.50$ each. Windfall, Department AH9, 185 Adams Street, Bedford Hills, N.Y.

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GLORIOUS AMERICAN EAGLE
Reproduced by master craftsmen - to enhance the inside or outside of you
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Head or Leg Elevator raises your mattress 5 to
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Give your child a head start in Arithmetic
Get these new Musical Multiplication Rec-ords-and see his marks in arithmetic go up, quickly! All the Multiplication Tables from 2 's through 12 's have been set to music on 5 records. Each table has its own catchy tune and musical quiz. Children love to play them. Used in thousands of schools. Parents and teachers report wonderful results. Write for free folder. Send your name and address to: Bremner Records, Dept. N-4 Wilmette, III.


## Married women are sharing this secret

. . . the new, easier, surer protection for those most intimate marriage problems

What a blessing to be able to trust in the wonderful germicidal protection Norforms can give you. Norforms have a highly perfected new formula that releases antiseptic and germicidal ingredients with long-lasting action. The exclusive new base melts at body temperature, forming a powerful protective film that guards (but will not harm) the delicate tissues.

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trusted by women. . .
proved in hospital clinics

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And what convenience! These small feminine suppositories are so easy to use. Just insert-noapparatus, mixing or measuring. They're greaseless and they keep in any climate.

Available in packages of 6,12 and 24. Also available in Canada.

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## WE'VE GOT NEWS FOR YOU

DOOR TO PHONE SERVICE: Some telephone subscribers are answering their doorbell by picking up their telephone. Soon this service will be available throughout the country. Called TelButler, it consists of an attractive speaker-microphone mounted outside the door which is connected to inside telephones. When the doorbell rings, the person inside the house lifts the handpiece of his regular telephone and speaks with the person outside. The Tel-Butler may also be set up as an intercommunications system between phones in any area of the house or on the property. It provides a new sense of security for families in remote suburban areas as well as crime-ridden cities, while saving the busy lady of the house countless steps. The basic setup (one phone connected to an outside speaker) is inexpensive to install and costs about as much as an extension phone to run. For further information contact your local phone company.

SAFE HEATING: The International Oil Burner Company's new heater is a great boon for homes that must be child- or petproof. That's because the portable unit uses an electric element immersed in water that is permanently sealed into a copper tube. Even paper or rags stuffed into the openings by children cannot burn, and the unit can be painted or completely covered by draperies. Other good things about this heater are that it is silent, thermostatically controlled for a steady heat, and easy to install (just plug into any outlet). The units come in five sizes ( $30^{\prime \prime}, 3^{\prime}, 4^{\prime}, 5^{\prime}$, and $7^{\prime}$ ) and range in price from $\$ 74.95$ to $\$ 104.95$ They are all U. L. approved.

TWO FOR THE SPACE OF ONE: A washer and spin-dry combination which measures only $32 \times 17 \times 29^{\prime \prime}$ is being marketed by the Hoover Company. It's small enough to find room in crowded apartments, but does a king-sized job washing 24 pounds of wash in 24 minutes. The unit has two motors, a stainless steel tub, and two separate pumps. Priced from $\$ 150$ to $\$ 155$.

FLOUR OF THE FUTURE: Throw away your sifter, stop fighting with lumps in your gravy, and buy yourself a new, easy-to-pour bag of Gold Medal Wondra Instantized Enriched Flour. The wonder of it is that it is granular in texture-completely unlike the old-fashioned powders. It need not be sifted, cannot form lumps, and does not pack down, so the cup weight is more uniform and the baking results more even. It will work in all your old recipes as well as some new time-saving ones which are possible only with Wondra. Sound terrific? It is!

OVENS THAT GO ANYWHERE: Caloric Corporation has introduced a new $30^{\prime \prime}$ wide gas oven that can be placed virtually anywhere in the kitchen-above a range, away from the range hung from upper cabinets, placed on the counter top, or built into a wall or cabinet. The 300 Series "A La Carte" units are perfect for the homemaker who wants a "second" oven. The three models are attractively styled with sliding glass doors and a metallic-tone finish which will blend with other appliances. Over-all dimensions are about $30 \times 18 \times 161 / 4$ ".

PICASSO IN PRINTS: Works of the great master are now causing a stir in the decorating world as they appear on a new line of decorator fabrics by Bloomeraft. Paintings and other motifs by Picasso are carefully reproduced in scale and color from the originals for this collection. For those of you who have a flair for the modern, this is something to get excited about. The line includes eleven patterns, each available in a sheer and heavy weight material. The designs run the gamut from harlequin and bullfight themes to abstractions of floral and musical subjects, with some patterns combining two Picasso works. The 48 - to 49 -inch fabrics are protected with Zepel (a Du Pont oil- and water-resistant agent). These Picassos are about $\$ 5$ a yard.


Three beautiful ways to save steps !
Put colorful extension phones in the bedroom or kitchen, family room or den, on porch or patio-wherever you'd rather reach than run. Just call the local Business Office or ask your telephone man.


Floors and walls in Kentile ${ }^{\oplus}$ Travertine Solid Vinyl Tile. Colors: Off-White and Moss Green. Brass-outlined insert in Moss Green Travertine and Black Vinyl Tile. Check Travertine's low price at your Kentile Dealer's. He's in the Yellow Pages under "Floors."


Actual-size closeup shows true-to-nature subtle veining and pitted texture

New! Kentile Vinyl Travertine gives you all of Travertine Marble's natural beauty... at a surprising low cost. Here's a solid vinyl tile floor that's greaseproof and easy to clean. Need not be waxed. Six striking colors. Free sample? Write to: Kentile, Inc., Dept. T-AH-9, Brooklyn 15, N. Y.


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