



**THE MAGIC BOTTLE.**

**A Trick That Will Teach a Little Lesson in Physics.**  
Here is a trick that will prove a puzzle to those who are not pretty well up in physics.

Take an ordinary dinner plate and fill it with water, then a small empty bottle, and assure the spectators that you are wizard enough to pour water through the solid bottom of the latter.

Pass the bottle around that all may see it perfectly empty and dry; then, having thrust a stick into it and held it to the fire until it is very hot—too



THE WATER RISING IN THE BOTTLE.

hot to hold in the bare hands—stand it, mouth downward, in the plate of water. At the same time pour a tablespoonful of water on the upturned bottom, as if you were beginning to fill it in that way.

Each time you do this the bottle will be seen to retain more water, and as a corresponding amount will have disappeared from the plateful from which you are dipping it, it will easily appear as though the water had passed through the bottom of the bottle.

Of course the fact is that the water really rises from the plate with the contraction of the air as the bottle cools.

**THE GIRAFFE.**

**Hard For It to Browse on the Ground, So It Lives High.**

"You can always tell giraffe country at a glance," said Captain Manel, the big game hunter. "A place of low bushes or no bushes or trees at all is sure not to have any giraffes in it. Always look for low trees with abundant leafage before you look for the giraffes. No matter how fertile the ground may be or how full it may be of fine juicy grasses and other vegetation that would furnish abundant food for the giraffes, you won't be likely to find them unless there are trees. The reason for this is that it is very nearly as hard for a giraffe to browse on the ground as it would be for a man to stoop over without getting on hands and knees and pick something up from the ground with his mouth. There is no more awkward and painful sight than to see one of these beautiful beasts feeding from the ground. It straddles its immense forelegs out sideways till they look as if they were being stretched like india rubber. Then it slowly and clumsily lowers its body, jerking its forelegs spasmodically to keep its balance. That is why a giraffe is not eager to browse on low growing vegetation."

**Novel Fishermen.**

The boys who live near a body of water containing perch, bullheads or catfish can make large catches by means of simple devices.

An old jug, well stoppered, makes an excellent assistant. After emptying the jug and corking it securely take it to the place where you want to fish and, making a line fast, bait your hook and carefully lower the jug in the water.

A tempting worm on a hook below a jug is liable to result in a bite, and then the jug commences to bob about in an amazing manner. If the fish is large it may tow the jug around the water for awhile, but a heavy jug will soon tire out even a big fish, and then you can haul in the captive.

If jugs are not obtainable, large bottles are effective, although they do not offer the resistance the heavy jug does and, unless dark colored, are hard to see on the water.

**To Extract Flower Essence.**

Any little girl may make perfume in the following manner: Place a layer of the flowers in a clean earthen pot and over them a layer of fine salt. Repeat the process until the pot is filled, cover closely and place in the cellar. Forty days afterward strain the essence from the whole through a crape by pressure. Put the essence thus expressed in a clear bottle and expose for six weeks in the rays of the sun and evening dew to purify. One drop of this essence will communicate its odor to a pint of water.

**Wanted the Trousers.**

Little Antony, aged three, was at Sunday school in his first pair of trousers. A picture of several little angels was before the class.

"Antony, would you like to be a little angel?" asked the teacher.

"No, ma'am," replied Antony after a careful inspection of the picture.

"Not like to be an angel, Antony? Why not?"

"Cause, ma'am, I'd have to give up my trousers."—Little Chronicle.

**Cleaning House.**

Dolly's clothes are on the line. Dolly's dishes fairly shine. Dolly's home is swept all through. Chairs and tables look like new. Dolly's little mother, May, Has been cleaning house today. —Sunbeam.

**SOUP SCIENCE.**

**The Dishes That Are Prepared With and Without Stock.**

"Many people wonder," said an old fashioned housekeeper, "why we begin a heavy dinner with soup. It is because the stomach is tired and needs a mild stimulant before being taxed. We find in soup, especially in clear soup, is the reason clear soups are served for heavy dinners and purees and cream soups for luncheon. The cream soups and purees, with bread and butter, make a fairly nutritious meal. There are two kinds of soups—those with stock and those without. Stock is the extract from meats. Beef extract acts as a stimulant, bringing the digestive juice into play. In it we get only the flavor and the coloring of the beef, but no nutrient.

"A dog fed only on beef extract died of starvation. It is used in sickness as a conservator of energy, to keep up the vital forces until nature can repair the weaknesses. Bouillon is the clear soup made from beef extract, delicately seasoned. Brown soup is made from stock, which is two-thirds lean beef and one-third fat and bone. In the bone we find the gelatin and mineral matter.

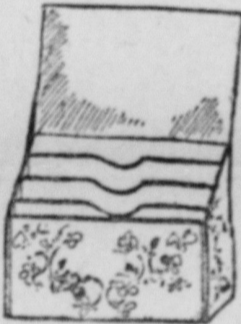
"The best cut for stock is the mid-way cut of the shank, in which is found the round bone with the marrow. Brown soups are made of this stock clarified and seasoned with vegetables and herbs. White soups are made from stock of fish or chicken. Consomme is made from two or three meats and is clear. Mutton soup or broth is invaluable for invalids in convalescence, especially in fever cases, through its sustaining qualities.

"The soups without stocks are the creams, bisque and puree. The last named is seasoned with vegetables or fish and pressed through the puree sieve, with tissues of the vegetables left in the soup. Bisque is made with shellfish or vegetables, with bits of the fish or dice of the vegetable left in."—Indianapolis News.

**DESK SETS.**

**How a Girl May Make a Pretty One For Her Bedroom.**

Pretty desk sets for bedroom use can be made at home. Every girl likes a pretty room, and with a very little effort on her part she can have one by taking pains to arrange it and choosing tastefully the things she puts in it. This useful letter box, to hold stationery and old letters, is made out of cardboard covered with flowered cretonne. You first cut the pasteboard, which must be of a good thickness, in



A PRETTY DESK SET.

pieces the size you require for your box, then lay them on your material and cut pieces of that just a little larger than the board. A plain lining is used for the inside, and pieces of it must be cut the same as the flowered material.

The cardboard is held between a piece of the plain and a piece of the flowered material, and it is whipped closely all over the edge. When all the pieces have been done they are joined together, and the partitions, which are cut out of the colored cardboard exactly the size to fit inside of the box, are slipped in place.

The cover of the box is then made in the same way, a very pretty plan being to leave an oval opening in the material where you can slip in a photograph or picture.

To make a really pretty finish to the edges a narrow strip of fancy gold braid is sometimes used as trimming.

**Laundering Fine Dollies.**

Laundering fine linen dollies is attended with some difficulty, especially when the dollies are fringed. Combing out the fringe after ironing results disastrously in a very short time if the linen is really fine. A clever woman discovered this method, which, after all, may not be new. Great discoveries seldom are. After rinsing the dollies they are floated one by one in a dish of clean, cool water. When the fringes are perfectly smooth and flexible, slip a piece of manila paper or blotting paper under the dolly and lift the whole thing out of the water. Let the dolly dry on the paper, and the fringe will need very little combing.

**Perfuming Clothing.**

Queen Alexandra's laces, linens and silks are perfumed by a method which almost any woman can copy. The drawers in which they are kept are lined with white paper strewn with rose petals. On this is placed a layer of the fabrics to be scented, over that a layer of rose leaves, and so on in alternation until the drawer is filled. Over all a sheet of tissue paper is spread. At the end of twenty-four hours everything in the drawer will have a delicate perfume.

**HANDKERCHIEF CASE.**

**Careful When Traveling and Also For Collars and Stocks.**

A handy handkerchief case for women who travel is one of those utterly simple little inventions that are so wonderfully helpful and can be enlarged upon or developed into a dozen other things as satisfactory in themselves. A double use for it, by the way, is to tuck turnover collars and stocks in the division under the handkerchiefs.

Take two strips of silk or ribbon, each twelve inches long by four wide, lay cotton batting, with sachet powder inserted, smoothly over both pieces, and line them with silk or another color or white.

Lay one on the other, crossing, so that the centers of both are in the same spot, and sew along the edges of the outer strip, leaving the edges of the inner strip free. Then tuck a half inch ribbon to the center of the outside, fold the inner strip in three by laying each end over flat, and fold the outer over in the same way, tying the ribbon securely in a bow on top.

The folds, both lengthwise and crosswise, will prevent your handkerchiefs from working out, as they do so often in handkerchief cases. And collars can be deftly slipped between outer and inner strip and folded over the handkerchiefs. They will muss less this way, if your space is too limited to box them comfortably, than any other way.—Philadelphia North American.

**FLAKY PASTRY.**

**How to Mix, Work and Shape It to Get Good Results.**

For flaky pastry sift together three and a half cups of sifted flour, half a teaspoonful of baking powder and a teaspoonful of salt. Thoroughly work in half a cup of lard, then moisten with half a cup of very cold water. Turn on to a floured board and roll into a thin oblong. Wash half a cup of butter in cold water and work until smooth, patting out all the water; then shape into one-third the size of the pastry, laying it in the middle and folding one side evenly over it and the other side on top thus: Fold one end over and the other end under the butter, pat gently to press out any air bubbles, then roll in to oblong strip. Fold again evenly to make three layers, turn half round and roll again. Repeat the folding and rolling twice more, and the pastry is ready for use. This process sounds tedious, but really is very simple. The paste should be soft enough to roll easily, but not be sticky.

Pastry should not be rolled back and forth. Instead, a long continuous motion from the point nearest the operator to the other side should be used, pressing lightly with the rolling pin. To shape it use a sweeping motion to the side, but always lift the rolling pin and start in again at the point nearest.—Pilgrim.

**THE HOME DOCTOR.**

Relieve a dyspeptic feeling with a drink of hot water.

Three parts of white vaseline and one of bismuth make an old and well known ointment for skin diseases.

Castor oil is said to lose all the disagreeable qualities for which it is famous if mingled with orange juice.

Hoarseness may be relieved by beating thoroughly the white of an egg and adding lemon juice and sugar. An occasional teaspoonful is the dose.

To relieve a gumboli a homely remedy is to take a thin strip of dried fig, dip it in milk, toast it and then apply hot to the swollen gum. Relief is speedy.

Don't experiment with poultices if symptoms of pneumonia exist. Flaxseed and bread and milk poultices should be used only by a trained nurse, for if they are permitted to cool they aggravate rather than relieve the disease.

**Dorothy's Dictionary.**

Dorothy had driven half the household wild by her attempts to discover the meaning of a word. At last her mother, in despair, took down the big unabridged dictionary and showed it to her. The next day Dorothy was in a strange house and got into an argument with the youths of the place over the meaning of another word. To convince her that they were right they pulled out a small school dictionary and showed her the definition.

But if they expected Dorothy to be impressed they were bitterly mistaken. "Huh!" said she, wrinkling up her nose and mouth in a highly insulting and sarcastic manner. "That dictionary don't count. That's only one of those old bridge dictionaries. Wait till you come to my house, and I'll show you I'm right with our big unabridged one."

**Stuffed Peppers.**

Cut the stem ends of large sweet peppers and dig out the seeds, taking care not to have them touch the sides or they will make the dish too hot. Lay the emptied peppers in ice cold salt and water for an hour. Have ready a good mince of ham, of chicken, of veal or of lamb, with breadcrumbs or cold boiled rice worked up with it to avoid soginess. Season with onion juice, salt, butter and gravy, also tomato juice if you have it. Fill the peppers with this and pack open ends up, in a bake dish or pan. Fill in between them with a good gray. Sprinkle fine crumbs over the tops and bake, covered, half an hour. Then brown.

**Cleaning Laces.**

Here is a wrinkle, says a late English magazine, for cleaning laces at home. You must often have despaired of getting your lace that delightfully dingy yet clean color which you see in the shops. Make some very weak tea and add a few drops of india ink (the best) to the tea. Dip in your lace.

**Rough on the Smart Set.**



She—it does seem as if we should never get into good society.

He—Well, I'm afraid you're right. We seem to be so hopelessly mixed up with the smart set.

**An Illustrated Ad.**



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Be cheerful. Cheerfulness tends to length of days and to days that are worth the lengthening. Be cheerful.

Be thoughtful. Thoughtfulness is too tender a plant of blessed fragrance and beauty to be "born unseen," etc. Be thoughtful.

Be good humored. Good humor is better than medicine, no matter how well the ill natured pill be sugar coated. Be good humored.

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**CULINARY CONCEITS.**

All custards with eggs and milk should be baked in a pan of hot water.

Potatoes, cereals and all starchy foods should be thoroughly cooked so that they may be easy to digest.

Toast should always be crisp and cut thin. Use a stale thin loaf and dry the slices over the stove before toasting.

Fish, particularly the salt water kind, is better if when it is boiled a cupful of good cider vinegar is mixed with the water.

The secret of having light, good mashed potatoes is to keep them hot while mashing and to have the milk with which they are moistened hot also.

Bacon broiled in the gas range oven is delicious and wholesome. Place the slices in the broiler as usual and set in the oven over a dripping pan. Cook until browned under a moderate flame.



He (closing the discussion)—At any rate I mind my own business.

She (bitterly)—No doubt that's what makes you so narrow minded.

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