

SCIENCE AND PROGRESS

SUBJECTS OF INTEREST LIKE TO SCIENTISTS AND AMATEURS.

Two Experiments, One Illustrating Atmospheric Pressure and the Other Centrifugal Force, demonstrated in Recreational Family to Most Boys.

The simple scientific experiments here illustrated are chosen from among similar ones to be found in a new edition of M. Gaston Tissandier's "Recreation Scientific."



FIG. 1.—ATMOSPHERIC PRESSURE.

In Fig. 1 is shown the well known "sucker" whose workings every school boy understands. This object, as well known, consists of a leather disk through the center of which passes a strong cord, knotted on the under side of the disk to prevent its escape.



FIG. 2.—CENTRIFUGAL FORCE.

Fig. 2 illustrates the method of making a sling with a cane and a potato. The end of the cane is inserted in a potato in such a way that the latter shall have a certain degree of adhesion and be pretty firmly fixed.

The "eternal hills" are far from being eternal. They are constantly decreasing in size and being washed down into the valleys. Even the lofty Alps are considered to be but the "stubs" or remains of a much loftier range existing in past geological epochs.

On the other hand, the belief that stones and rocks, especially the loose boulders found in the drift, have grown and are growing in their present situation, is not uncommon among ignorant people, and says Popular Science News, it is true that many rocks do grow. The limestones have been formed by living organisms, like the coral polyps, and it may even be said of many limestone deposits, that every particle has at some time formed a part of a living animal.

A Desirable Vegetable Gine. Concentrated solution of gum arabic, says Pharmacy, possesses the disagreeable property, when applied to printing and other paper not strongly sized, to penetrate them to transparency, and in spite of this, not making them adhere to other paper.

Incendiary Water. For a Marshal Whitcomb, of Boston, has been experimenting with rats and matches shut up together in a cage, in order to ascertain whether they were likely to cause fires or not. In the absence of other known cause, frequent fires have been ascribed to their agency, while at the same time they are understood to be affected by the same time.

ALL AROUND THE HOUSE.

A Novel Way of Growing the Narcissus. Delicious Candied Fruits.

A very beautiful and interesting house plant is the Chinese narcissus, grown in water. This mode of cultivation is probably unknown to many readers. It comes from China and was introduced into California by natives of the Flowery Kingdom and is now becoming a fashionable fad in the east.

How Candied Fruits Are Prepared. The beautiful and delicious candied fruits to be seen in the city fruit stores and confectioners, were formerly imported almost entirely from France. Now California supplies many of them. The process of preparation has been described as follows:

Oil Stains on Floors or Tables. If the oil stain on the boards is quite fresh, it can be removed with brown paper, or with blotting paper. Take a large clean sheet, put it on the stain, and iron heavily with a hot iron.

The Care of Salt Cellars. It is easy to prevent salt from getting lumpy by adopting the following measures: Always buy the best powdered table salt, and keep it in a very dry place.

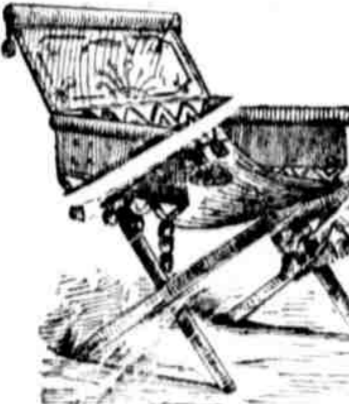
An Excellent Pudding. Pudding royal the following is sometimes called; and it has the advantage of being good at any season:

Fruit Shortcake. To make shortcake for strawberries, raspberries or any suitable fruit: Rub an even tablespoonful of butter into a pint of flour; stir in half a pint of milk and a heaping teaspoonful of baking powder.

Citron Cake. One cupful of butter and two of white sugar, beaten to a cream; four eggs, whites and yolks beaten separately; three cupfuls of sifted flour; one cupful of sweet milk, one teaspoonful of cream of tartar sifted in the flour, one-half teaspoonful of soda dissolved in the milk, half a pound of citron cut in very thin pieces, well dredged with flour and added at the last; flavor with lemon or rose.

Egg Salad. Put the crisp leaves of a head of lettuce in a salad bowl, and add four sliced hard boiled eggs. Sprinkle a dozen minced capers over the whole, and add a plain dressing made of one saltspoon salt, one fourth saltspoon pepper, one tablespoon oil. Mix and add to salad, toss the lettuce lightly and add one tablespoon of vinegar; serve.

A Convenient Chair. The folding chair represented in the cut is convenient for the deck of a ship, the beach, the garden or small rooms.



To Keep the Glass Ware Shining. When making cake or omelet, take up discarded egg shells, crush them into small bits, put them into your decanters three parts filled with cold water, and thoroughly shake them. The glass will look like new, and all kinds of glass washed in the same water will look equally well.

The Story of Christian Lorsch.

Some months ago a man named Christian Lorsch, who had, with his wife and three children, emigrated from Germany, reached this city. A stranger in a strange land, ignorant of its customs and the ways of its people, unfamiliar with its language, and without a single friend, he found it a difficult matter to find employment. He worked at odd jobs whenever he could get them, but could not earn enough to keep the wolf from howling at his door.

The Rev. Dr. Edward Judson, of the Reformed Baptist church at Bedford, and Downing street, proposes to build in New York, on the East side, among the homes of the poor, a church edifice which shall stand as a memorial to his father, Adoniram Judson, who belonged to the first group of missionaries that ever came to this country to labor among the heathen.

Fortune Made by a "Bad Slip." Old-time Pittsburghers would hardly need an introduction to Philip Winebiddle, founder of the Winebiddle estate, in East Liberty. About sixty years ago his mother gave him \$500 as a starter. "Go West" fever had not as yet agitated staid eastern communities, but Philip was fired with a restless ambition to go west, and, seeing but little prospect of a great future for Pittsburgh, he journeyed toward the setting sun, and after much meandering, he halted at the city of Erie, then little more than a lakeside hamlet.

Medical Don'ts. Don't neglect a "common cold," it may lead to even fatal pneumonia. Don't neglect to have your dentist examine your teeth at least once every six months. Don't infer because a certain remedy cured a case similar to yours that it will positively cure you.

Mohammed's Faith. Some of Canon Isaac Taylor's contentions are strongly supported by The Chinese Times, which declares that "observers notice how much the average Chinaman is improved where he adopts the faith of Mohammed. The man becomes more cleanly, manly, honest and hospitable; and, as a rule, his fortunes improve too. And, silently but surely, Islam is making great way in some parts of China, so that in a few years the followers of the prophet will in many regions outnumber the Buddhists and Confucianists."

To Preserve the Whittier Homestead. So much has been said relative to the purchase of the old homestead of the revered poet, Whittier, that it is of interest to know that the place is not for sale and cannot be bought. The estate is owned by a gentleman of Haverhill, who has declined to part with it under any circumstances, and naturally feels somewhat aggrieved that he was not consulted before the plan of buying the place and preserving it as a perpetual memorial has received such approval. The friends of the movement will, however, be pleased to hear that the owner of the old Whittier home is deeply interested in the preservation of the house and all its surroundings, and has made arrangements for the reception of all visitors who may wish to see the place.

New Amusement for Indians. The Washoe Indians, of Nevada, have found a new amusement. They pit their squaws against one another in prize fights. No rules are observed, and hair pulling, scratching, fighting and kicking are permitted. The sport seems to have the same fascination for the untutored savages that pugilism has for civilized white men.—Chicago Herald.

PHYSIOLOGY AND HYGIENE.

A Fascinating Health Machine—Disease Germs in Ice—Toilet Soaps. The advocates of cycling are enthusiastic in regard to its beneficial influence upon health. A physician testifies that bicycling is good for dyspepsia, as it removes so many of its causes. A good cyclist never over-eats; it spoils the pleasure of his ride, for it spoils his wind; for the same reason he eats at regular hours; he has an appetite for proper food and is craving for it.

The Purity of Ice. Dr. Prudden states, in Popular Science, that a great deal of careful experiment has shown that water in freezing largely expels its germs, and that the ice thus formed contains a large proportion of the invisible bacteria which it contains may be destroyed, even as many as 90 per cent. But still large numbers may remain alive, for many species are quite invulnerable to the action of cold. It has been found that in ice formed from water containing many bacteria, such as water with sewage contamination, the snow ice almost invariably contains many more living bacteria than the more solid, transparent part; so that the snow layer should be especially avoided.

Medicated Soaps. According to Professor Shoemaker, soda soaps are more irritating than potash soaps. Soaps that contain free alkali are, in young children, the cause of many skin eruptions. Alum soap is good for chafing. Hero glycerine soap is useful in some and rough skin. Chamomile soap is mildly stimulating, and is the best soap for dandruff. Naphthalin soap is the best application for parasites on any part of the body. Salicylic acid soap is a non-irritating antiseptic soap, and is good for toilet purposes. Corrosive sublimate soap is serviceable for removing freckles, rough skin, for changing a muddy to a clear complexion, and in all kinds of itching.

A Thoughtless Habit. Many people who do not think of putting a dirty bank bill between their lips do not hesitate to make the mouth a convenience for holding silver change for a moment. But it is claimed to have been demonstrated that disease germs can be carried by silver pieces as well as by paper, and if one could see all the hands through which the coin had passed it would probably be kept far away from the mouth.

Putting on Glasses. Some people have a foolish dread of wearing glasses, but while there is danger of young eyes assuming glasses too old, and consequently straining the organs, there is a much greater and more common peril of neglecting the required use of competent lenses. The only safe way in selecting glasses is to visit a reliable optician and have the glasses "fitted," as one would a dress or coat.

Water Thicker Than Blood This Time. Stranger at Table (to Mrs. Washington Boomer)—I understand the Potomac river water is very bad. Mrs. B.—I hadn't noticed it. Stranger—Why, I heard it was exceedingly thick and muddy. Mrs. B. to servant—Mary, bring in a pitcher of water. Mary (from the kitchen)—Yes, m'am. Where's the shovel?—Washington Critic.

Revenge is Sweet. "Mother," said Miss Clara, "do you think Bobby ought to lounge in that handsome chair?" "Certainly not, Bobby," said the mother, reprovingly, "you might break it." "If it's strong enough to hold Clara and Mr. Featherby," argued Bobby, as he slowly slid down, "ought to be strong enough to hold a little boy."—New York Sun.

An Unfortunate Man. Applicant at Hospital—Can you allow me to remain here a few days? I'm so far gone I'll die if I don't have proper care. "How long do you expect to remain?" "Until next Thursday." "What are you going to do then?" "When I'm going to fight Snuggler, the champion of England, for the diamond belt."—Nebraska State Journal.

All He Wanted. A circus proprietor, having had his outfit carried away from him in a fire, remarked that he would not mind the ducking so much if he could only get his canvas back.—Yonkers Gazette.

A Good Chance for a Homeless Giant. A lady advertises that she has "a fine, airy, well furnished bedroom for a gentleman twelve feet square."—Collegiate Journal.

Likely. A roll of butter was recently found in a well on Long Island. Probably the landlady who owned it, set out to look it up the night before it ran away.—New York Morning Journal.

The Clamor of Gentility. The misanthropic word "lady" reaches its climax in an anatomical article printed in a leading journal, which speaks of "a lady's skeleton."

CONSOLOATION.

A lady dressed in deep mourning and having a look of Bostonian refinement and reserve, got on a Chicago train bound for Denver one day last week. Away out in Kansas, near Deakville creek, there boarded the train a native of the soil in the shape of a woman in a green delaine dress, a blue and red shawl and a yellow mobia. She dropped easily and gracefully into the seat in front of the lady in black, turned round, stared hard for a moment and then said:

"Well?" "I—I—did you speak to me?" asked the lady in surprise. "Yes, m'am." "Thought so. Quite recent, eh?" "Yes." "What ailed him?" "Consumption." "Linger a good while?" "I—I—yes." "Much a'goin'?" "Yes, indeed." "Coughed a sight, hey?" "Oh, yes; but I—"

"I know what'd cure him in less'n a month. Never knowed it to fail, an' I've used it five times in cases where they'd been give up by tried doctors. Yes'm. But it ain't no use talkin' 'bout that now. Any children?" "Yes, three." "His folks got 'em?" "No, but really, I—"

"Two boys an' a girl, or two girls an' a boy?" "Two girls." "Oh! Did you get your thirds out an' out?" "Really, madam, I—"

"The law gives a woman her thirds, but 'tain't often she gits 'em out 'n' out. I think she'd ort to have half, don't you?" "I—I—really, I don't know." "Well, I do. Was you made garden of the children?" "No—that is—"

"Well, I bet I'd be garden of my own young uns if my man was to die. These gardens git the property half the time. Did he have money in bank?" "I beg your pardon, but—"

"You ort to make him put it in your name. It makes it lots easier when the man dies to settle things up. His kin try to break the will?" "Excuse me—"

"A man can't die nowadays 'bout a pack of his folks tryin' to break the will, no matter how many wives and children he has. You goin' to wear craps all the time or only a year?" "Fardon me, but—"

"It's less'm to you, but kinder expensive for common wear. But dear me, you ain't more'n 36 or 37, are you?" "No reply." "I don't know how you feel 'bout second marriages, but I—"

"Oh, madam, please—"

"You'll marry agin, now I'll bet you do. Oh, I know how you feel now. My sister Cindy felt and talked just so, an' she married agin in six months, an' done well, too. I'd wait a year, if I was you. It looks better, shows respect and all that; but if I was young as you an' had only three children I'd—"

But the lady in black had fled to the next car, and her comrade turned to the man on her right and said:

"Talk 'bout her not marryin' agin! I've an idee she's got a wery purpose to see if she kin do well here, and I don't blame her."—Detroit Free Press.

STORIES ABOUT MEN.

An Old Time Chiropractor Tells How Lincoln Received a Detegation. There is an old chiropractor in Washington who has doctored the spines of all the great men in the country for the last third of a century. I asked him the other day how many presidents had sat in his chair.

"Let me see," he answered. "I believe I have had every one of them since the time of Buchanan. I came to Washington in his administration, but had not much practice then. People used to doctor their own corns. Several times a year I went to the White House while Lincoln was there. Both he and his wife had very troublesome feet. While I was operating on Lincoln once he admitted a delegation of clergymen who had come to see him about extending the work of the Christian commission in the army. They were very much astonished when they were shown into the room where he sat on a table with his bare feet upon a chair, and I do not know of any other president who would have received so dignified a delegation under similar circumstances, but time was very valuable and he did not want to keep them waiting. He told a number of funny stories about his experience with corns and bunions, and the doctors of divinity recovered from their astonishment and began to exchange views on the subject. Then they sobered down and presented their case to Mr. Lincoln, who promised to issue the order they wanted.—Washington Cor. New York Tribune.

A Sample of Sunset's Wit. Mr. Cox, of New York, entertained the house with his views on the bill which proposes to give the bodies of papers to medical colleges for dissection. Mr. Cox favored the passage of this bill, on the ground that it was in the interest of the living more than in the interest of the dead.

"I favor it," said he, "because of the changes that take place in our mortal sphere. The body which is a mere shadow of the life is of little consequence, compared with that life." "I am not insensible to the preservation of the form itself. Who that is human could do otherwise? If, then, we would preserve the memory of our dear and dead friends, with their features in a deathless picture, and since we cannot have them in marble and only in dust, let their health and safety in life be our chief anxiety in legislation, even as in our homes."

"Let us care for them in such a mode by law that they may be long with us here, assured that they have a 'life beyond life—an immortality rather than a life.'" "At this point Mr. Taubee, of Kentucky, asked Mr. Cox if he would be willing that his own body should be given to medical colleges, and Mr. Cox promptly replied, with a twinkle in his eye:

"I would have to ask my wife about that." Of course, this "brought down" the house.—Washington Cor. New York Tribune.

Agreeably Disappointed. It is one of the misfortunes of the rich senators to be constantly besieged by applicants for small loans. Among the most wealthy men of the senate is Brown, of Georgia, whose patriarcal beard and air of solemnity made him a particular target for the impudent. The way in which he repelled one of the applicants on his generosity is related something like this:

Across the hotel table from the senator sat a sad eyed woman bolder who had once been in good circumstances, but upon whom adversity had frowned of late. "Senator," said this sad eyed lady, "you southerners are so chivalrous, so ready to assist those in distress."

"Yes," replied the senator, hesitating; he had heard that before from sad eyed people, and he thought he desired what was coming. "Would you, senator, with your true southern chivalry, do me a favor and a great kindness?" "Yes, madam, what is—that is—it depends somewhat."

"Think well, senator, before you promise, for it is a great kindness." "The tones of the same old song the senator had heard many times before from parties who wanted a \$10 loan.

"I am afraid, madam, that I will have to, but what is it you wish, anyway?" "That you pass the cut-up—you have everything on your side."—Washington Cor. New York Tribune.

Lamar as a Fisherman. The most scientific angler is Hampton. He has one of the finest outfits in Washington, and his patience and perseverance are said to be all that can be desired. He frequently acts as a sort of instructor to his colleagues who are willing to try a hand in fishing for bass in the Potomac. It is said of him that he once took Lamar, while he was yet a senator, up to the Chain Bridge at Little Falls, for a day's fishing. Lamar, as is his custom, took a novel along with him, and while Hampton was stumping among the rocks set himself down upon the bank of the river, hooked on his line a live frog, cast it out upon the water, opened his book and waited for results. Patience makes good fishermen, and Lamar should have got all the bass in the Potomac, for he sat still with his pole between his knees, while he devoured the novel, until the waning sun waked him to the fact that the day was almost gone and he also saw Hampton appear in the distance with a fine string of fish in his hand. Starting up in surprise, the future associate justice of the supreme court began to haul in his line, and to his great disgust found that the intelligent frog had quietly swam ashore and was sitting on the bank close to him with the hook in his mouth.

Of course, this may be only a campaign story. I give it as it was told me by one of Hampton's friends.—Washington Cor. New York Tribune.

Thomas Starr King used to tell that one of his kinsmen was much opposed to his entering the lecture field, and were inclined to belittle his abilities. So one night Dr. King invited him to hear one of his brilliant discourses, and at the close asked him what he thought of it. "Waal," was the cheering reply, "you war'n't half as tejus as I thought you'd be."—Boston Transcript.

Enough is a Feast. Mr. Dunlop, an amateur carver, to young lady at his right: Will you have some of the duck, Miss South? Miss South (handing duck from her lap): Thanks, Mr. Dunlop, but I don't want the entire bird.—Epoch.



The Enterprising Housewife.