

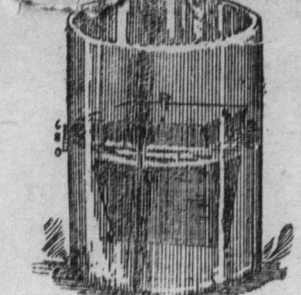
SCIENCE AND PROGRESS

INTERESTING PARAGRAPHS CULLED FROM ALL SOURCES.

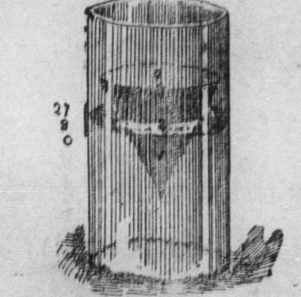
A Method of Making Geometry Interesting to any Class—Teaching Through the Aspect of Common Things—Practical Application of Euclid's.

In the Popular Science Monthly for November, Mr. George Iles, of New York, formerly of Montreal, has an illustrated article describing how he taught some young people certain important laws of geometry.

"One chilly evening the sitting-room in which my pupils and I sat was warmed by a grate-fire. Shaking out some small live coals I bade the boys observe which of them turned black soonest. They were quick to see that the smallest did, but they were unable to tell why. They were reminded of the rule they had committed to paper, but to no purpose, until I broke a large glowing coal into a score of fragments which became black almost at once. Then one of them cried, 'Why smouldering coal gives it more surface.' This young fellow was studying the elements of astronomy at school, so I had him give some account of how the planets differ from one another in size, how the moon compares with the earth in mass, and how vastly larger than any of its worlds is the sun. Explaining to him the theory of the solar system's fiery origin, I shall not soon forget his keen delight, in which the others presently shared, when I burst upon him that because the moon is much smaller than the earth, it must be much colder, that indeed it is like a small child compared with a large one. It was easy to advance from this to understanding why Jupiter with eleven times the diameter of the earth still glows faintly in the sky. And then to note how the sun continues to pour out its wealth of heat and light because the immensity of his bulk has, comparatively speaking, a little surface to radiate from."



Our next lessons were intended to bring out the relations which subsist between several of the principal forms of solids. Two series of models in wood were accordingly made. The first consisted of a cube having a base five inches square, and a wedge and pyramid of similar base and height. The second series comprised a cylinder, sphere and cone, each five inches broad and high. Taking the first series, a woman's comparison of the sides of wedge and cube that one contained half as much wood as the other; but that the pyramid contained a third as much as the cube was not evident. Weighing the pyramid and cube brought out their relation, but a more satisfactory demonstration was required, for what was the relation of the solids were of the same specific gravity. Taking a clear glass jar of an accurately cylindrical interior, measuring seven and a half inches in width by ten in height, it was half filled with water, and a fountain was vertically attached to its side. The models, which were neatly varnished, and therefore impervious to water, were then successively immersed and their displacement of the water noted.



This proved that the pyramid had a third the content of the cube, that the same proportion subsisted between the cone and cylinder, and that the sphere had twice the contents of the cone. Dividing the wedge by ten parallel lines at equal distances apart, I asked how the area of the smallest triangle so laid off, and that of the smallest square with the area of the large triangle formed by the whole side of the wedge. 'As the square of their sides,' was the answer. Dipping the wedge below the surface of the water in the jar, edge downward, it was observed to displace water as the square of its depth of immersion. Lowering the process, the wedge became a simple means of extracting the square root. Dividing the vertical play of its displacement into sixteen parts drawn along the jar's side, we divided the wedge parts by equidistant parallel lines.

As the square of their sides, was the answer. Dipping the wedge below the surface of the water in the jar, edge downward, it was observed to displace water as the square of its depth of immersion. Lowering the process, the wedge became a simple means of extracting the square root. Dividing the vertical play of its displacement into sixteen parts drawn along the jar's side, we divided the wedge parts by equidistant parallel lines.

Blotches, pimples, liver patches, B. M. D. Light quick dispatches, Drives away incipient tumors, Clears the blood from poisonous humors, Adding one, whoever you be, Try the worth of G. M. D., which is the great Golden Medical Discovery of Dr. Pierce—a woman's blood-purifier. This is a standard remedy for all cases of bronchitis, colds, and coughs, guaranteed to cure.

PHUNNY PHELLOWS.

WHILE READING HERE YOU CAN SMILE FREE.

An Odd Corner Devoted to the Merry-Makers—Bits of Life Found Here and There—Pleasant Paths in Which to Stray—Her Swinging Gait.



He—"Your stride just like that fence. How so?" "You have such a swinging gait."

No Work Wanted. "Now, here's just the work you want."

Ordinary Layman—Oh, I think you might wear it with perfect propriety, Mr. McAllister—Life.

An Obituary Proceeding. "The post-office department utilizes a large quantity of eggs."

A Sympathetic Boy. Mother—What makes you cry that way? John—Our poor teacher has been sick so long, and—

It is Ever So. "I see that our country paper has a new drum."

The Handy Man. Wife—That pane of glass has been out all summer and now a freezing cold day has come and we need it in. I've told you forty times to send a man here to fix it. Why in the world haven't you done it?

No Ground for the Cause. "On what ground, Mr. Caution, do you object to my smoking?"

An Appropriate Branch. Father—What branch do you consider the most profitable for my son?

An Impressive Warning. Teacher—Thomas, I saw you laugh just now. What are you laughing about?

Did Not Follow. "Did you ever notice that children often turn out almost the exact opposites of their parents?"

The Haysen's Idea. "Education is a priceless thing, Mr. Haysen, said Paste."

An Accommodating Boy. City Dame (in the country)—By, can't you get some chicken?

A Gentle Voice. "Tommy—Oh, I'm so glad you've come home, papa! Mama has been awful mad to me today."

An Appreciative Husband. Wife—Did you read in the paper yesterday about the unfortunate man who lost so many wives?

Comes of Marrying a School-ma'am. "What! Blossom, you got yo' key to yo' ally?"

Colonel (to society)—You say that this man, whom you have arrested, offered you a cigar while you were on post?

AS PALE AS DEATH. Mr. E. P. Bailey, Eikhorn, Mass., writes: "My daughter was so pale as to be unable to live on a living person, she showed such terrible pains in her head."

for Minsard's Liniment.

ITEMS OF INTEREST.

Garfield Tea cures sick-headache.

Brightest idea of the century—the electric light.

Keep Minsard's Liniment in the House.

Some cheap perfumes are not to be sniffed at.

Minsard's Liniment is used by Physicians.

The summer girl has to put up with many a rein beau.

Minsard's Liniment, the Lumberman's Friend.

Some men, if they take one swallow, will insist on having a lake.

A sample package of the Wonder-work, Jug K. D. C. the King of Dyspepsia Cures mailed to any address.

Speaking of the small pieces of ice, it's generally a warm day when its left.

Are you troubled with head-ache, heart-burn acidity? Take K. D. C. the King of Dyspepsia Cures. It is guaranteed to cure you.

They are called racing tips because their patrons are so easily upset by them.

As the name indicates, Hall's Vegetable Siccian Hair Renewer is a renewer of the hair, including its growth, health, youthful color, and beauty.

When a man "feels his oats" it is not always evidence of his being a stable character.

Are you troubled with any stomach, nausea, nightmare? Take K. D. C. the King of Dyspepsia Cures. It is guaranteed to cure you.

The man who has "the pull" at a picnic is generally the thoughtful chap who has brought a flask.

If you do not know how good a remedy Garfield Tea really is for constipation and sick headache, send a postal card to D. Denmore & Co. 317 Church Street, Toronto, for a free, trial package.

Conundrum submitted for the Post's gold eagle prize: What makes a coach dog spotted? The spots.

NEKODAN'S GERMAN SOAP. "Soft as Velvet," "Pure as Gold," that tells the whole story.

Young women telephone operators, are greatly exposed to danger during a thunder shower as they dial the sparks.

Be sure and put a box of Ayer's Pills in your satchel before travelling, either by land or sea.

It often happens that a fellow who "won't go home till morning" can't go home then till somebody pays a fine for him.

The Chinese pay their doctor only so long as he keeps them in health.

He—"A woman can't conceal her feelings. She—Can't, eh; she can kiss a woman she hates. He—Yes but she doesn't fool the woman any."

George F. Newcombe, Deloraine, Manitoba: "To whom it may concern. This was with unhesitating testimony to the wonderful curative power of K. D. C. For about ten years I suffered terribly from indigestion causing spasms of the stomach which continued from one to eight hours and for some months was unable to eat any kind of food without the slightest inconvenience and a moment of wonder to many who thought me dying years ago."

Needs—You say he left no money? Bagger—No. You see he lost his health getting wealthy, and then lost his wealth trying to get healthy.

C. C. Richards & Co. Gentlemen—For years I have been troubled with a sore throat, and my face. I have spent hundreds of dollars trying to effect a cure without any result.

It might be a good thing for some households if it were the custom to take down in shorthand everything that the bride and groom promise out on the wedding day, and have it written out on the typewriter and framed to hang on the parlor wall.

ARRIVE AT THE SOURCE OF YOUR DISTURBANCE. Arrive at the source of your disturbance at night and morning with pain of the chest and suffering and as one case and get a trial of the "Wine of Dr. Williams' Pink Pills for Pale People."

WINE OF DR. WILLIAMS' PINK PILLS FOR PALE PEOPLE.

WINE OF DR. WILLIAMS' PINK PILLS FOR PALE PEOPLE.

WINE OF DR. WILLIAMS' PINK PILLS FOR PALE PEOPLE.

WINE OF DR. WILLIAMS' PINK PILLS FOR PALE PEOPLE.

WINE OF DR. WILLIAMS' PINK PILLS FOR PALE PEOPLE.

WINE OF DR. WILLIAMS' PINK PILLS FOR PALE PEOPLE.

WINE OF DR. WILLIAMS' PINK PILLS FOR PALE PEOPLE.

WINE OF DR. WILLIAMS' PINK PILLS FOR PALE PEOPLE.

WINE OF DR. WILLIAMS' PINK PILLS FOR PALE PEOPLE.

WINE OF DR. WILLIAMS' PINK PILLS FOR PALE PEOPLE.

WINE OF DR. WILLIAMS' PINK PILLS FOR PALE PEOPLE.

VERY MANY SUCH.

RHEUMATISM.—Col. DAVID WYLER, Brockville, Ont., says: "I suffered intensely with rheumatism in my ankles, could not stand, rubbed them with St. Jacobs Oil. In the morning I walked without pain."



THE SHORTEST AND MOST DIRECT ROUTE BETWEEN NOVA SCOTIA AND THE UNITED STATES. THE QUICKEST TIME. IS TO 17 HOURS BETWEEN YARMOUTH AND BOSTON!



The Chute, Hall & Co. Organ! Yarmouth, N. S. BEST IN THE MARKET!

DR. WILLIAMS' PINK PILLS FOR PALE PEOPLE. THE BEST STOVE POLISH IN THE WORLD.

COMET STOVE POLISH. MORE IN CAKE THAN OTHER MAKES. A Marvellous Cure.

BE A MAN! WEAR MEN'S. FOR A LITTLE TIME.

VIGOR and STRENGTH! FOR LOSS OF HAIRING MANHOOD, GENERAL AND NERVOUS DEBILITY, WEAKNESS OF BODY AND MIND.

WATSON'S. THE ACADIAN and guided where to buy.

1892. THE 1892. Yarmouth Steamship Co. (LIMITED).



The Shortest and Most Direct Route between Nova Scotia and the United States. THE QUICKEST TIME. IS TO 17 HOURS BETWEEN YARMOUTH AND BOSTON!

STEEL STEAMERS. "YARMOUTH," AND "BOSTON."

ONE of these Steamers will leave Yarmouth for Boston every Tuesday, Wednesday, Friday and Saturday Evening after arrival of the Evening Express from Halifax.

UNGAR'S STEAMLAUNDRY, 62 & 64 GRANVILLE ST., HALIFAX, N. S.

Lace Curtains! DYED & CLEANED TO LOOK LIKE NEW without the least injury to material. WE ALSO DYE & CLEAN ALL KINDS OF CURTAINS, AS Damask, Rep, &c. Satisfaction Guaranteed!

MATERIALS! USED IN THE MANUFACTURE OF WOODILL'S German Baking Powder. ARE Pure, Wholesome, Well-Proportioned.

Executors' Notice. ALL PERSONS having legal demands against the estate of John O. Pines, late of Wolfville, in the County of Kings, Esquire, are requested to render the same, duly attested, within twelve months from this date.

COAL! Building Lots. IN STORE! FULL SUPPLY of Springfield Coal and Hard Coal; and to arrive at Kingport, per schr. Blake, from New York, a cargo.

"Lackawanna" HARD COAL. Orders requested to be left with our agents MESSRS PRAT & COLLINS, J. W. & W. Y. Fullerton, Wolfville, Dec. 18th, 1891.

W. & A. RAILWAY. Tuesday, 5th July, 1892.

Table with columns: GOING WEST, Station, Time, and other details for the W. & A. Railway.

Table with columns: GOING EAST, Station, Time, and other details for the W. & A. Railway.

SOMETHING NEW! Bensdorp's Royal Dutch COCOA AND CHOCOLATE. Try Them.

ROYAL BELFAST GINGER ALE. Highest Price for Eggs. G. H. WALLACE, Wolfville, August 15th, 1890.

PATENTS. Scientific American. For information and free literature apply to Scientific American Agency for Patents.

Seasoned Pine. ON HAND. One hundred thousand feet Seasoned Pine. J. W. & W. Y. FULLERTON, Port Williams, March 22d, 1892.

"RULER HUGO." This favorite station will make the season of 1891 at the stable of his owner, at Greenwich. His weight is about 1600 pounds, and he has cost about three years old he was a great opportunity for farmers to get cheaply reliable stock that will command high prices.

TERMS MODERATE! F. W. Griffin, Greenwich, April 6th, 1891.