SCIENCE.

VIOLET WRITING INK .- " For two gallons, heat two gills of alcohol in a water bath; add to the alcohol two ounces of violet aniline, and stir till dissolved; then add the mixture to two gallons of boiling water; mix well, and it is ready for use. Smaller quantities in proportion. It is said that many fortunes have been made from the sale of this secret, and the product when manufactured, but we reckon it is too late for that in these days of scientific knowledge and competition in ink production."

The opening and test of the cantilever bridge, at Ni Falls, proved a big suc-The day was clear and conditions favourable to the About nine o'clock eight heavy engines were coupled together, and passed over the structure on the track on the northern side of the bridge. Several other locomotives were run across the bridge singly and in pairs early in the morning. Everything worked like a charm and there was no hitch. The crowds began to gather at both ends of the bridge, and the railroad officials had hard work to keep the people off the bridge. They waited patiently for the big train of locomotives, freezing their feet during the waiting. The engines were all on the Canada side. At 12:05 p.m. the Engineer began to take the levels, and soon after he gave the signal for the engineer to start the long double train with smoke puffing from twenty smoke-stacks and steam ing to do. pouring from the safety valves. The locomotives pulled on the bridge. About every fifteen feet the train stopped, the observations were made, and it was not till one o'clock that the forward engines reached the American side and the whole track surface was covered with engines and loaded gravel cars. There were twenty locomotives, eight bunched in the centre of the train and the others separated by the gravel cars. The test is in every way satisfactory to the builders and engineers; there was not the slightest variation.

HEALTH HINTS.

A LINIMENT FOR RHEUMATISM .-The The apeutic Review says: Methyl salicylate (oil of wintergreen) mixed with an equal quantity of olive oil or linimentum saponis, applied externally to inflamed joints affected by acute rheumatism, affords instant relief, and, having a pleasant odor, its use is very agree-

A correspondent of the Scientific American says: "Let any one who has an attack of the locked jaw take a small quality of turpentine, warm it and pour it on the wound, no matter where the wound is, and relief will follow in less than a minute. Nothing better can be applied to a sevene cut or bruise than cold turpentine. It will give certain relief almost instantly. Turpentine is also a sovereign remedy for croup. Saturate and place the flannel on the throat and chest, and in every case three or four drops on a lump of sugar may by taken inwardly."

WHERE ICE IS USED, great care should be observed as to what the water contains of which it is made. The Popular Science monthly has a valuable article, shewing the deleterious consequence of using ice made from impure water.

At the beginning of the season of 1875 about a thousand visitors were assembled at Rye Beach, New Hampshire and a considerable number were attacked with a serious symptoms which led to the suspicion that they had consumed some noxious article. The incidence of the disease was entirely confined to 300 persons occupying one of the large hotels. The sanitary state of this hotel is said to have been exceptionally good, and, although suspicion seemed at first to attach to the water supply, yet the disease was found to have affected many who, the use of the water," which was strongly impregnated with salts of lime and mannesia, "had carefully limited themselves since their arrival to other beverages." Indeed, as the result of a careful process of

elimination, suspicion came at last to be directed to the ice furnished to the house. The water obtained by melting the ice was discolored and charged with suspended matter and gave off a decidedly disagreeable odor, the athmosphere of the ice-house was offensive, and some \$90. persons who had used the ice away from the hotel were found to have suffered in the same way from violent illness. The ice in question had been derived from a local pond, the water of which was found to have become foul by long continued stagnation; one portion of the pond measuring about five hundred feet in length and one hundred and fifty feet in width, was occupied by " homogeneous mass of putrescent matter." A piece of ice, carefully cleansed from all surface impurities, was then melted, and the water thus obtained was submitted to chemical analysis, the result being the detection in it of a quantity of " decaying organic matter." The use of the ice had also in the meartime been discontinued, and coincident with its disuse "there was observed an abrupt amelioration in the symptoms of nearly all why had hitherto been ill." So, also, no fresh attacks occurred during the remainder of the season. Even among the more educated classes there prevails an impression that even if water is contaminated it is purified by freezing. Many experiments, however, have

It will rest you wonderfully to change your seat in the room occasionally if you have a long day's sew-

HOUSEHOLD.

shown the fallacy of this view.

BREADED EGGS .- Boil the eggs hard, slice them when cold and dip each slice in raw egg and afterwards in bread crumbs; fry in butter and

DRIED APPLE SHORT-CAKE .- To make dried apple short-cake, instead of strawberries, make the cake in the usual way, rich or plain, as fancied. Take some nice dried apples, wash and soak, and cook them until they are tender; then rub them through a sieve or a fine colander, add sugar and the grated rind and juice of a lemon; use this in place of the berries, for people with whom strawberries disagree.

STEAMED POTATOES .- Steam or boil dry a quart of sound potatoes; then peel and mash in a saucepan, and mix an ounce of butter; set over the fire, pouring in slowly nearly one-half a pint of milk; stir to prevent scorching; dish into a common earthen dish; scallop and put in a quick oven to brown: set on table in same dish. This is the most palatable way of cooking potatoes, especially in spring.

HOW TO LOOSEN A TIGHT SCREW. -" One of the simplest and readiest methods of loosening a rusted screw is to apply heat to the head of the | do very well; don't teach them so many screw. A small bar or rod of iron, things; teach them one thing.' 'What flat at the end, if reddened in the is that, Mr. Irving? she asked. 'Teach fire and applied for a couple or three minutes to the head of the rusty screw will, as soon as it heats the screw, render its withdrawal as easy by the screw-driver as if it was only a recently inserted screw. As there is a kitchen poker in every house, that instrument, if heated at its extremity and applied for a few minutes to the head of the screw or screws, will do the work of loosening, and an ordinary screw-driver will do the rest, without causing the least damage, trouble, or vexation of spirit."

An appetizing dish is made by taking cold boiled cabbage; chop it fine; for a medium-sized pudding-dish full add two well-beaten eggs, a tablespoonful of butter, three table-spoonfuls of cream, with pepper, and salt ad libitum. Butter the pudding dish, put the cabbage in and bake until brown. This may be eaten cold, but is much better if served hot. It is especially good with roast pork, or pork chops.

'having apprehended trouble from the fire in a burning chimney by first called?' 'Oat meal,' promptly replied shutting the doors of the room, then a member of the class. throw on the fire in the fireplace a few handfuls of common fine salt. Close the fireplace and allow the muriatic acid or by the hand, in order to be heard gas evolved from the burning salt to out; for if people are unwilling to hear pass up the chimney and put out the you, you had better hold your toungue fire .- Dio Lewis Monthly.

FARM AND GARDEN.

An ostrich raiser says that os triches are plucked once a year when under three years of age, and twice a year when older, yielding feathers at each plucking worth from \$70 to

If you have a field too rocky to be cultivated, set out an apple orchard; and in a few years you will have a handsome income from it.

Turnips are not so good before as after a frost; but a very light frost is sufficient to impart a finer flavor. The growth, however, is made during the moist weather that follows the first light frosts.

OATS .- Those who grow oats sometimes claim that they draw more from the soil than wheat, but one who has given the matter attention states that where he has known an average crop of corn to take 76 pounds of nitrogen; wheat, 39; oats took only 30, and of potash and phosphoric acid, oats took less than either corn or wheat. He thinks however that oats derive less from the atmosphere than other crops receiving their nourishment from the soil alone; and while he knows that this crop requires less of nitrogen, potash and phosphoric acid than wheat or corn, yet for some unaccountable reason it seems to be harder on soils than the others .-Rural Record.

TO PERSUADE HENS TO LAY EGGS IN WINTER you must give them special attention. Good com ortable quarters and plenty of animal food. Whilst a hennery should be protected from cold winds it ought also to be in a dry place. Light is important, and the more sunshine the better. The south side of the house should be made principally of glass. The house should be large enough so that in cold weather the fowl can stay inside without being cramped for room. A building 20 feet by ten is none too large for 25 hens. There should be no floor to the house except the ground; this should be kept well covered with a mixture of dry muck and fine gravel or coarse sand; three parts muck to one part gravel or sand. In one corner should be kept dry ashes for the hens to wallow in.

Having made the inside of the building comfortable, an effort should be made to provide a sheltered place where the hens can exercise in good weather. This should be a sunny place with a tight board fence to break the wind. The yard should be kept free from snow, and so graded that the water, in moderate weather, will readily drain off. Never let hens stand for any length of time where their feet will be in the water.

VARIETIES.

The newspaper foreman got a mar riage notice among a lot of items head ed 'Horrors of 1883,' and when the editor learned that the groom's income was only \$7 a week he said it had better remain under that head.

Washington Irving once said to a lady:- Don't be auxious about the education of your daughters; they will them,' he said, 'to be easily pleased.'

A lady who had read that 'it's lucky to pick up a horseshoe; picked up one in a blacksmith shop. The suddenness with which she dropped it showed that it was not lucky.

A specimen of uniform spelling: A young lady said to her beau. "I'm glad the sneau's coming down seau. Because now I kneau

We'll a sleigh riding geau,

So hail to the beautiful sneau!"

A rich but ignorant lady, who was rather ambitious in her conversational style, in speaking of a friend, said, . He is a paragram of politeness.' 'Excuse me,' said a wag, sitting next to her, ' but do you not mean a parallelogram?' 'Of course I do,' immediately replied the lady. 'How could I have made such a

What's in a name? Mary Young died at Bangor last week, aged one hundred years, three months and two days. She was an estimable woman. The good die Young .- Lowell Courier.

' Now, children,' she continued ' what PUTTING OUT A FIRE. - Extinguish is the meal you eat in the morning

> Never hold any one by the button. than them.

WATCHES, WATCHES, WATCHES,

5 DOLLAR GOLD PIECES FOR THE

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Sample Bottles 10c; Regular size \$1.

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Oct. 4.

A large proportion of the diseases which cause human suffering result from derangement of the stomach, bowels, and liver. AVER'S CATHARTIC PILLS act directly upon these organs, and are especially designed to cure the diseases caused by their derangement, including Constipation, Indigestion, Dyspepsia, Headache, Dysentery, and a host of other ailments, for all of which they are a safe, sure, prompt, and deasant remedy. The extensive use of these ZILLS by emment physicians in regular practice, shows unmistakably the estimation in which they are held by the medical profes-

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W. L. PAGE, of W. L. Page & Bro. Franklin St., Richmond, Va., June 3, 1882. "I have used AYER'S FILLS in numberess instances as recommended by you, and have never known them to fail to accomplish the desired result. We constantly keep them on hand at our home, and prize them as a pleasant, safe, and reliable family medicine. FOR DYSPEPSIA they are invaluable.

Mexia, Texas, June 17, 1882. The REV. FRANCIS B. HARLOWE, writing from Atlanta, Ga., says: "For some years past I have been subject to contipation, from which, in spite of the use of medicines of various kinds, I suffered increasing inconvenience, until some months ago I began taking AYER'S PILLS. They have entirely corrected the costive habit, and have vastly improved my general health."

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