

## Scientific and Useful.

**POTATOS AND BRAN.**—"Twenty-four whole potatoes planted in as many hills, with a handful of bran in each, will give a yield of three pecks, and the nuthier tight alongside of them, but without bran, will yield only half a bushel."

**IMPURE RAIN WATER.**—It is worthy of notice that two ounces of borax will clear a twenty-barrel cistern of rain water that has become impure. In a few hours the sediment will settle, and the water be quite clear for washing purposes.

**APPLE CUSTARD.**—Take two good-sized apples, stew them and sweeten in the rind of one lemon, and stir together with the yoke of an egg. Put paste in the bottom of the dish, fill, and bake till done. Then take the white of the egg and beat it up with sugar; put on top, and put back in oven a few minutes.

**LEMON CAKE.**—One pound flour, one of sugar, three-fourths pound butter, seven eggs, juice of one and rind of two lemons. The sugar, butter, and yolks of eggs must be beaten a long time, adding by degrees the flour, and the whites of eggs last. A tumbler and a half of sliced citron may be added. This keeps well.

**TO CUT GLASS WITHOUT A DIAMOND.**—Carpenters, joiners and cabinet-makers are frequently called upon to fit glass to frames or sashes where no glass has been prepared to suit; under such circumstances it would be well to know how to cut glass to answer their purposes without the aid of a diamond. Many persons may not be aware that glass can be cut under water, with great ease, to almost any shape, by simply using a pair of shears or strong scissors. In order to insure success, two points must be attended to—first and most important, the glass must be kept quite level in the water while the scissors are applied; and, secondly, to avoid risk, it is better to begin the cutting by taking off small pieces at the corners and along the edges, and to reduce the shape gradually to that required, as if any attempt is made to cut the glass all at once to the shape, as we should cut a piece of cardboard, it will most likely break just where it is not wanted. Some kinds of glass cut much better than others, the softer glasses being the best for this purpose. The scissors need not be at all sharp, as their action does not appear to depend on the state of the edge presented to the glass. When the operation goes on well, the glass breaks away from the scissors in small pieces in a straight line with the blades. This method of cutting glass has been often of service when a diamond has not been at hand, for cutting ovals and segments, and though the edges are not so smooth as might be desired for some purposes, yet it will answer in a great many cases. The two hints given above, if strictly followed will always insure success.—*Illustrated Wood-Worker.*

**WHY SO DEPRESSED?**—During the early spring months it is common to hear persons speak of their feelings in the manner the London "Lancet" describes, as follows: "Unwonted depression and uneasiness, accompanied with loss of appetite and inability to sleep, are the prevalent causes of complaint just now among the 'tolerably well' section of the community; and, with a large measure of accuracy, the condition, modified as it is by individual peculiarities of state and idiosyncrasies, is attributed to the weather. The relations which subsist between such mental depression as constitutes melancholia and the defective discharge of its functions by the skin may help to explain the phenomenon. The connection of cause and effect may not be clearly made out, and the part which the nerve-centres play in the production of the result may be as obscure as that which they exercise in the control of occasional pigmentary deposits; but the broad fact remains. When the skin does not act freely, when its functions are seriously impeded or arrested, melancholy broods over the mind, just as in the case of a subject of melancholia, as a formulated disease, the skin becomes dense and inactive. It is not a random conjecture, therefore, that the intense and prolonged, albeit unaccustomed and unexpected, cold and damp, work their depressing influences mainly through the skin. This is a trite remark, but it is one that may with advantage be made just now, because in the interests of health-preservation, special pains need to be taken to secure the freest possible action of the great surface system of excretory glands and the transuding apparatus generally. Warmer clothing, especially at night, frequent ablutions, with sufficient friction, and the promotion of skin activity by every legitimate form of exercise, are obvious measures of health which everybody ought to understand and all should practice."

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two or three years before you took it in hand, almost

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—everything indeed but the surgical knife—and in

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manent cure. The cancerous humor seems thor-

oughly expurgated from my blood. I have now for a

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yet my health is perfect, and at the age of sixty-six,

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