

Practical Formulæ.

Black Walnut Stain.—In a former number we recommended for this purpose a solution of permanganate of potash. The addition of sulphate of magnesia is said to give superior results. The proportions are as follows:

Pernanganate of potash.....	3 ounces.
Sulphate of magnesia	3 ounces.
Hot water.....	4 pints.

Apply by means of a brush, and repeat until the desired color is produced.

Tooth Powder.—Enderlein prepares a tooth powder, of a beautiful red colour, as follows: 40 p. cochineal, 30 p. alum, and 320 p. cream of tartar are mixed with sufficient water, and the mixture heated for several hours in the steam-bath. 250 p. cuttlefish bone are then added, the mixture is exsiccated and powdered, and the powder levigated with sufficient oil of almonds until it acquires a velvety appearance. A suitable perfume is attar of rose, or a mixture of one part of attar of rose and 2 p. oil of peppermint. *Pharmac. Zeitung*, 1872, No. 53.

Chemical Plants.—Take a glass tumbler, fill it with white or better, pure yellow sand to the height of two inches, and pour on a mixture of equal parts of silicate of potash (water-glass) and distilled water. Then drop in small lumps of different metallic salts, as sulphate of copper, sulphate of iron, sulphate of zinc, bichromate of potassa, and so on, being careful that no two pieces are touching. In a few hours there will grow up small stems and hair-like threads, filling the whole tumbler as far as the mixture goes.—*Correspondent of Drug. Circular.*

To Coat Steel with Silver.—In order to deposit silver upon steel it is necessary to first coat the article with copper. The solution which I have found to answer best for this purpose is composed of

Carbonate of potassa.....	4 ounces.
Sulphate of copper.....	2 “
Liquid ammonia (about).....	2 “
Cyanide of potassium	6 “
Water (about).....	1 gallon.

Dissolve the sulphate of copper in boiling distilled or rain water,