

METALLIC CRYSTALS.

Some of the metals take a crystalline condition under proper treatment.

EXPERIMENT 7.—Make a solution of lead acetate in boiling water and hang a bit of zinc in it when it cools.

After twenty-four hours examine the metallic mass without removing it from the water.

Is there evidence of crystallization?

Exercises.

If crystals of minerals and ores can be obtained, study their forms. Suitable ones are quartz, iron pyrites, calcite, fluor spar, tourmaline, micas, hornblendes, apatite, magnetite, galena, selenite.

Why should frost ferns form on the inside of store windows and not on the outside?

Breathe against a cold window pane on a very cold day. The feathery, crystalline mass that should form closely resembles that obtained from the sal-ammoniac on the glass.

FORMATION OF CRYSTALS.

For the formation of perfect crystals, whether from fusion or solution plenty of room is necessary; hence in masses of material the perfect crystals are found generally at the surface.

In order that the crystals may be large the evaporation or cooling must go on slowly.
