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The young man's book of amusement

Halifax, 1848

Experiment in Respiration

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duced by fusing the substance in a crucible which has a hole at its bottom, lightly closed by an iron rod or stopper, which is to be drawn out when the mass begins to congeal: by this means the superior portion, which is fluid, is made to run off, and a cake studded over with crystals is obtained.

To Remove a Gold Ring from the Finger when it has become too tight.

Take a little quicksilver, and rub it upon the ring, which will soon be penetrated with it, and become so fragile that it will break without the least exertion.

Experiment in Respiration.

Place a mouse or other small animal, under a jar of chlorine gas; or drop it into one from the aperture at the top of a jar filled with it. The animal will instantly expire.—Immerse a mouse or small bird in a jar of hydrogen gas; the animal will instantly die from suffocation, and the want of respirable nourishment.—If a mouse or sparrow be dropped into a jar of nitrogen gas, it will fall down exhausted, and gasping for breath: extinction of life will immediately follow.—Prepare a jar of nitrous oxide gas, and immerse in it any small animal; at first it will appear lively, but afterwards very uneasy and lan-

guishing, and life will quickly become extinct.—If a mouse or other animal be immersed in a jar of sulphuric acid gas, it will instantly expire. There are few gases more deleterious to animal life than this, and too much care cannot be taken not to breathe an atmosphere charged with it, even in a small degree.—If a mouse be dropped into a jar containing carbonic acid gas, it will expire in two or three seconds. In this way butterflies, &c. may be preserved for cabinets.—Confine a mouse or other small animal in a jar of nitrous gas; life will immediately become extinct.—Immerse a mouse in a jar of atmospheric air; it will at first give no signs of uneasiness; but as its respiration proceeds, and the oxygen is consumed (the atmospheric air in the glass being loaded with carbonic acid gas from the lungs), the animal will gradually become faint, and if kept in much longer, will die.—Let two jars be placed on a table; the one containing oxygen gas, and the other pure atmospheric air. Into each of these let a mouse be dropped. The animal immersed in the oxygen will live four times as long as that in the jar of atmospheric air.

An Infallible Barometer.

Put two drams of pure nitre and half a dram of chloride of ammonia, reduced to powder, into two ounces of spirit of wine, or pure alcohol, and place this mixture in a glass tube, ten inches long and

eight inches in diameter, which must be covered with paper, pierced with a fine, the solid matter, and the alcohol, this is to fall in a jar, when rise and fall, somewhat thick at the bottom, or even a small matters rise from a crust on the glass in a state of the place 24 hours the point of the liquid, indicated by the side of the tube, and is to come.

The Green T

It has been lately employed for the purpose of obtaining hydrogen gas, and in coal-mines, where the green light has been witnessed lately by the miners, whose greenness is growing in