

Vocabulary

Vocabulary

Study the **scientific method** vocabulary words and definitions below.

analog that which has similar characteristics to another thing (like the similarity between the heart and a pump)

apparatus the equipment or tools used in a scientific laboratory

computer simulation a computer program designed to represent the behavior of something in the physical world

conclusion a judgment or decision based on observation and analysis

data recorded facts or information

equipment what is used to carry out a particular purpose or function (as in measuring *equipment*)

experiment an activity designed to test a hypothesis

Galileo Galilei an Italian astronomer and physicist who discovered that objects fall at the same rate regardless of mass

Vocabulary

hypothesis a statement that may explain a group of related observations

laboratory a place equipped and used for experimental study, research, analysis, testing, or preparation in any branch of science

observation information we gather by using our senses

safety the condition of being free from risk or danger

scale model a man-made version of a physical object that is identical in proportion to the original but which may be smaller in total size

scientific law a scientific theory that has been tested many times and has produced the same results over a period of many years

scientific method the set of skills used to solve problems and answer questions in an orderly way

scientific theory a general statement based on hypotheses that have been tested many times

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Study the **apparatus** vocabulary words and definitions below.

beaker a deep, wide-mouthed, thin-walled, cylindrical vessel with a pouring lip

Bunsen burner an instrument that uses a mixture of air and natural gas to make a very hot, blue flame

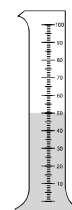


evaporating dish a small ceramic dish used as a container to allow small amounts of liquid to evaporate

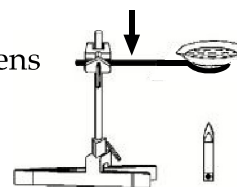
flask a narrow-necked, clear vessel used in laboratories

funnel a utensil with a wide cone at one end and a thin tube at the other; used to pour liquids into a container with a small opening without spilling

graduated cylinder clear tube with unit markings on the side and a flat base; used for measuring liquids

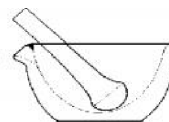


iron ring a ring-shaped clamp made of iron that fastens to the ring stand to support glass apparatus



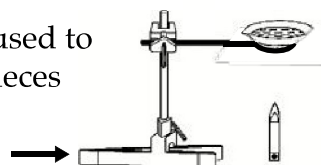
Vocabulary

mortar and pestle a thick heavy bowl (mortar) and a tool shaped like a club (pestle) used for grinding, pounding, or mixing



pipet a glass tube used to transfer small amounts of liquid; usually marked to show units of volume

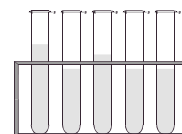
ring stand a holder or stand used to support various pieces of equipment



stirring rod a glass rod used to stir chemical materials

test tube a glass tube, closed at one end; used in making chemical tests; can be heated

test tube holder a rack that holds one or more test tubes in an upright position



thermometer instrument used to measure temperature

tongs a tool with two connected curved arms; used to grasp and lift hot apparatus or chemicals

wide-mouthed bottle a multipurpose container or bottle often used for collecting gas; sometimes called a *gas-collecting bottle*; cannot be heated