Directions:
1. Study tools, uses, and units for 30 minutes and take the quiz
2. Answer questions on Independent and dependent variables
3. Answer questions on observation inference

A. safety goggles  G. triple-beam balance  N. beaker  S. test tube holder
B. first aid kit  H. equal-arm balance  O. flask  T. test tube rack
C. tongs  I. voltmeter  P. ring stand  U. watch glass
D. fire extinguisher  J. stopwatch  Q. funnel  V. bunsen burner
E. meter stick  K. Celsius thermometer  R. test tube  W. ring for ring stand
F. spring scale  L. graduated cylinder  M. apron  X. ring stand clamp

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Independent and Dependent Variables Worksheet

Definitions: The Independent variable is the condition you change. It is also called the manipulated variable. The Dependent variable is the condition that reacts. The dependent variable is also called the responding variable.

Put a circle around the Independent variable and underline the Dependent variable.

1. The hungrier a cat gets, the louder he meows.
2. As the room gets darker, the harder it is to see colors.
3. Is the growth of a plant affected by acid rain?
4. Does surface area of a sponge affect the speed of evaporation?
5. Does the weight of a car affect its gas mileage?
6. Does one brand of nail polish dry faster than another?
7. Is the number of puppies affected by the age of the mother?
8. Is memory retention affected by the noise level of a room?
9. Does a person’s age affect his/her reaction time?
10. A rabbit’s fur grows longer as weather gets colder.

Making Inferences

Look at the following pictures. Give one observation and one inference for each.

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