

What is the purpose of the MSDS Sheet?

Who primarily uses an NFPA Symbol?

An electromagnet can be made by wrapping insulated wire around an iron nail and connecting the ends of the wire to a 6-volt battery. HYPOTHESIS: IF the number of coils of wire wrapped around the nail increases, THEN the strength of the electromagnet, as measured by the number of paper clips the magnet can pick up. Identify the independent and dependent variables.

INDEPENDENT VARIABLE:

DEPENDENT VARIABLE:

Where is the independent variable graphed? How do you remember this?

A student noticed that when a dog is cut, the dog periodically licks its wounds. Usually after a few days, the wound begins to heal without ever showing signs of infection. The following steps outline the student's line of reasoning:

- A. I wonder why the dog's wound doesn't become infected.
- B. The dog's saliva must prevent the growth of infection-causing bacteria.
- C. I'll obtain a bacterial culture and grow the same kind of bacteria in two identical culture dishes. Once the bacteria start growing, I'll add dog saliva to only one of the dishes and leave the other alone. I'll cover both dishes. Then I'll observe what happens each day for a week.
- D. Even after adding the dog saliva to one of the dishes, the bacteria continued to grow in both dishes over the course of the week. However, the bacteria in the treated dish grew more slowly than the bacteria in the untreated dish.

What is this student's Hypothesis? (IF, THEN)

So, what is the independent variable for this experiment?

And the dependent variable?

The graph in Figure 1-2 shows the three stages in the growth of a corn plant from a seed to a mature plant. Study the graph and then answer the questions.

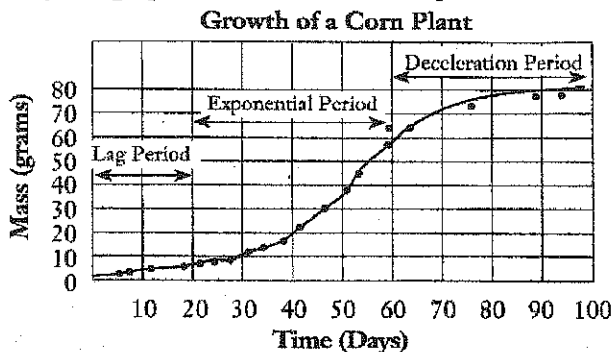


Figure 1-2

During which period does the greatest amount of growth take place, as shown in Figure 1-2?

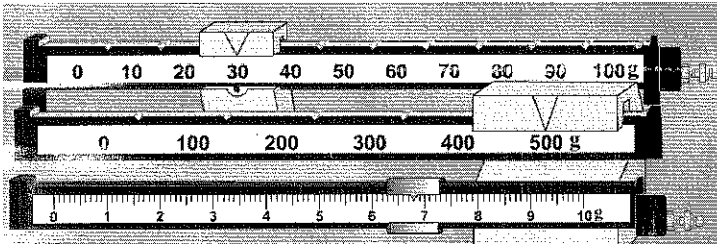
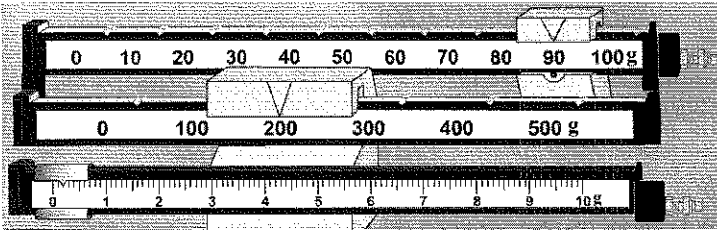
Draw an NFPA Symbol that indicates a flammability of 2, a health hazard of 4, reactivity of 1 and special instructions that indicate that water should not be used. (color appropriately)

What type of graph should be used to show comparison and why?

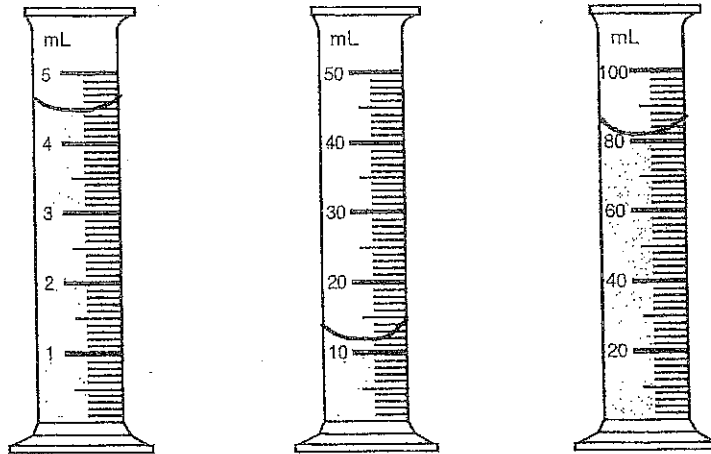
If the title of the graph is "The effect of light on the growth of plants" and we measure light in the amount of time the plant is exposed to it.
Where should the Hours of Light be graphed? (X or Y axis)

What type of graph is most appropriate?

RECORD THE MASS OF THE TRIPLE BEAM BALANCE



Record the volume of the graduated Cylinders



Density

If the mass of an object is 15g and the volume is 5 mL, what is the density? (show your work)

Solution A has a density of 50g/mL and solution B has a density of 12g/mL. You place both of the solutions in a graduated cylinder, which solution would sink to the bottom of the graduated cylinder?

Safety

List three Safety Rules: