

Chapter Test Introduction to Science

Name: _____ Date: _____

1. Write the number next to the following to indicate the order it would appear on an experiment report. (6)

- _____ Research the problem
- _____ Observed and record
- _____ Make a hypothesis
- _____ Identify the problem
- _____ Arrive at a conclusion
- _____ Test the hypothesis

2. Match the following terms with the correct definition.

- | | |
|---------------------|--|
| _____ 1. hypothesis | a) organized process used to test a hypothesis |
| _____ 2. control | b) an educated guess about the solution to a problem |
| _____ 3. variable | c) observations and measurements recorded during an experiment |
| _____ 4. experiment | d) a judgment based on the results of an experiment |
| _____ 5. conclusion | e) a logical explanation for events that occur in nature |
| _____ 6. theory | f) used to show that the result of an experiment is really due to the condition being tested |
| _____ 7. data | g) factor that changes in an experiment |



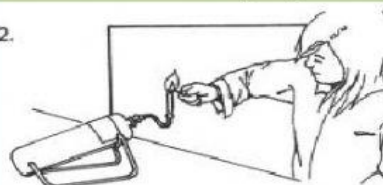
3. SAFETY IN THE LABORATORY

What is wrong in the following pictures?

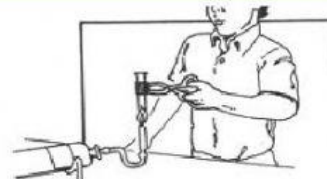
1.



2.



3.



4. Write the term for the following definitions.

- _____ 1. It is the measure of the hotness or coldness of an object.
- _____ 2. The process of sharing ideas and information with other people.
- _____ 3. It is the amount of matter in an object.
- _____ 4. It is the colour of the hottest flame.
- _____ 5. The glassware that can withstand a lot of heat.
- _____ 6. It is the pull of gravity on an object.
- _____ 7. It is the mass of a substance in one units of its volume.
- _____ 8. The basic unit that represents a system of measurements.



5. LABORATORY EQUIPMENT

Match the following names of lab instruments and equipment with the correct picture.

- | | | | | |
|-----------------------|------------------|--------------------|---------------------|---------------|
| a. beaker | c. balance | e. test tube | g. funnel | i. tongs |
| b. graduated cylinder | d. Bunsen burner | f. test tube clamp | h. Erlenmeyer flask | j. ring stand |



6. Identify the following safety symbols.



7. For the following areas name which branch of science they are categorized under:

- a. Biology _____
- b. oceanography _____
- c. Zoology _____
- d. Chemistry _____
- e. Meteorology _____
- f. Physics _____

8. Provide the SI unit of the following quantities:

- a. Time _____
- b. Length _____
- c. Volume _____

- d. Temperature _____
- e. Weight _____
- f. Mass _____

9. Name the instruments used to measure the following:

- a. Time _____
- b. Length _____
- c. Volume _____

- d. Temperature _____
- e. Weight _____
- f. Mass _____

10. Match the label with its description.(6)

- a. Toxic substances _____
- b. Explosive substances _____
- c. Harmful substances _____
- d. Flammable substances _____
- e. Corrosive substances _____
- f. Radioactive substances _____

- 1. Substances that can be easily ignited if exposed to flames.
- 2. These can cause death if swallowed, or if their fumes are inhaled.
- 3. Can destroy body tissues, clothing, furniture and equipment.
- 4. Substances that give off harmful rays that cause lasting damage to body tissues.
- 5. These can cause vomiting if tasted or swallowed.
- 6. Substances that can explode if exposed to flames, air, moisture or heat.