

Physical Science Study Guide for Nine Weeks Exam

The following chapters will be covered on the exam:

Ch. 1: The Nature of Science

Ch. 15: Classification of Matter

Ch. 16: Solids, Liquids, and Gases

Ch. 17: Properties of Atoms and the Periodic Table

Ch. 18: Radioactivity and Nuclear Reactions

Review questions:

Ch. 1: Nature of Science

1. What does SI stand for? - **International System of Units**

2. List the SI units for mass, length, time, volume, temperature, and density.

Mass = g Length = m Volume = cm^3 or 1 ml Time = sec Temp. = $^{\circ}\text{C}$ Density = g/cm^3

3. Convert the following:

a. 100.0 m to dm = **1000dm**

b. 1.32 mm to Km = **.00000132 Km**

c. 756,000.0 Dm to cm = **756,000,000 cm**

4. What numerical value do the following prefixes represent?

a. Kilo = **1000**

d. deci = **.1**

b. Hecto = **100**

e. centi = **.01**

c. Dekka = **10**

f. milli = **.001**

5. How is volume determined for a rock? a cube? **Rock = water displacement**

Cube = $L \times W \times H$

6. How is density calculated? **$D = m/v$**

7. Why is the metric system used in the scientific community? **Easy to use and based on units of 10**

8. What is gathered using the five senses? **Observations**

9. What is an educated guess called? **Hypothesis**

10. Describe the difference in the dependent and independent variable.

Dependent variable = the factor that is measured or observed

Independent variable = the factor that is changed or manipulated

11. When creating a graph, where is each variable placed?

X = independent Y = dependent

12. At the end of an experiment, what is the data compared to?

The control group data

13. What factors are never changed during an experiment? **Control variables**

14. What is an organized manner in which a problem is solved? **Scientific Method**

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TD Snyder



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