

- III. Fill in the blanks. **Directions:** Complete the sentences by choosing the correct word (or words) from the word bank below. Write the word (s) on the blank(s) provided in each item.

scientific notation	physical science	chemistry	physics
scientific method	hypothesis	metric system	science
technology	matter	graphs	g/cm ³
dependent variable		independent variable	

1. Physical Science is a branch of natural science that includes physics and chemistry.
2. Technology is the application of science.
3. Scientists use the scientific method in solving scientific problems.
4. In any experiment, a proposed answer or answer to a question is called a hypothesis.
5. The independent variable is manipulated by an experimenter, while a dependent variable is the responding variable.
6. Scientific notation is a convenient way of writing very small or very large numbers.
7. Metric system is the widely used system of measurements that uses meter, liter and gram as base units.
8. Matter is anything that has mass and occupies space.
9. Density is the amount of matter in a given volume, and has a unit of g/cm³.
10. A graph can be linear or nonlinear, shows the relationship between two quantities.

IV. Measurements.

- A. Express the numbers in scientific notation.

- 1) 0.000,000,000 m = $0.0 \times 10^{-9} \text{ m}$
- 2) 1000 g = $1.0 \times 10^3 \text{ g}$
- 3) 0.01 L = $0.01 \times 10^0 \text{ L}$
- 4) 555,000,000,000 cm = $5.55 \times 10^{11} \text{ cm}$
- 5) 790.0 m² = $7.90 \times 10^2 \text{ m}^2$

- B. Expand the following in standard form :

- a) $2.2 \times 10^{-7} \text{ m}$ = 0.000,000,22 m

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