

Matter

Write the letter of the correct answer on the line at the left.

1 ____ The amount of matter in an object is a measure of its

- A. volume
- B. density
- C. weight
- D. mass

2 ____ the formula for calculating density is

- A. mass x volume
- B. mass x weight
- C. mass
volume
- D. volume
mass

3 ____ which of the following statements about the mass of an object is correct?

- A. Mass changes with location
- B. Mass remains constant.
- C. Mass changes with altitude
- D. Mass changes with gravity

Identify the type of change or changes that apply to each description by writing P for physical change, C for chemical change, and PC for both on the appropriate line.

- 1. ____ occurs when energy is added or removed.
- 2. ____ a new substance is produced.
- 3. ____ a substance changes form, but it remains the same substance.
- 4. ____ freezing water is an example.
- 5. ____ rusting metal is an example.

Match each term with its definition by writing the letter of the correct definition in the right column on the line beside the term in the left column.

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| 1. ____ temperature | a. The energy store in the chemical bonds between atoms. |
| 2. ____ exothermic change | b. A change in which energy is absorbed. |
| 3. ____ chemical energy | c. A measure of the energy of motion of the particles of matter |
| 4. ____ endothermic change | d. The total energy of all particles in an object |
| 5. ____ thermal energy | e. The fact the matter is neither created or destroyed in any physical or chemical change |
| 6. ____ law of conservation of mass | f. A change in which energy is released |
| 7. ____ physical change | g. A change in matter that produces one or more substances |
| 8. ____ chemical change | h. Alters the form or appearance of matter but does not turn any substance in the matter into another substance |