

1. For each statement, write T (if true) or F (if false) into the box on the left.

T	Compounds can be decomposed into their individual elements by chemical methods.
T	Sand and oil would form a homogeneous mixture.
F	Air is a pure substance.
T	The alkaline earth metals include beryllium, calcium, and magnesium.
F	Lithium is an alkaline earth metal.
F	Oxygen and sodium are in the same family on the periodic table.
T	Melting is an example of a physical change.

2. The elements on the modern periodic table are arranged in order of \_\_\_\_.

- a. Mass number
- b. Neutron number
- c. Atomic number
- d. Size
- e. Atomic mass

3. Steel is a(n) \_\_\_\_.

- a. Compound
- b. Element
- c. Homogeneous mixture
- d. Heterogeneous mixture
- e. Mysterious mixture

4. Which of the following is not representative of a physical property?

- a. Water boils at 100°C and 1 atm pressure.
- b. The density of water is 1 g/mL.
- c. Water freezes at 0°C and 1 atm pressure.
- d. Water reacts with sodium metal.
- e. Water and oil do not mix.

5. Which of the following is a chemical property of copper?

- a. Copper turns green when exposed to air.
- b. Copper is a solid at room temperature.
- c. Copper is a soft metal.
- d. Copper conducts heat well.
- e. Copper is used in coins.

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