

PRETEST

3 CHAPTER 3**Atoms and the Periodic Table**

- The smallest part of an element that still has the properties of that element is a(n) _____.
 - particle
 - matter
 - atom
 - molecule
- Which of the following represent elements and which represent compounds?

_____	a. O ₂
_____	b. Ar
_____	c. KCl
_____	d. H ₂
_____	e. Al
_____	f. NH ₃
- Label each of the following as either a pure substance or a mixture.

a. concrete	_____	c. oxygen	_____
b. water	_____	d. air	_____
- Why do helium-filled balloons and hot-air balloons float in the air?

- Calculate the density of a substance with a mass of 157 g and a volume of 412 cm³. Can this substance float on water?

- Which of the following statements about a helium atom in the sun and a helium atom on Earth is false?
 - They are likely to have the same chemical properties.
 - They are likely to have similar physical properties.
 - One will be five times more massive.
 - Neither one will be very chemically reactive.