Name _____ Class _____ Date _____

Skills Worksheet

Concept Review

Section: What Is Matter?

1. Classify the following as a homogeneous, *O*, or a heterogeneous, *E*, mixture.

_____ **a.** a pail of sand and water

_____ **b.** air

_____ **c.** human blood

_____ **d.** banana split

_____ **e.** chocolate syrup

_____ **f.** sea water

2. Compare and contrast atoms and molecules.

_____

_____

3. Explain the difference between a pure substance and a homogeneous mixture.

_____

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_____

4. Classify each of the following as an element or a compound.

_____ **a.** benzene, C_6H_6

_____ **b.** aluminum, Al

_____ **c.** aspirin, $C_9H_8O_4$

_____ **d.** titanium,Ti

_____ **e.** acetylene, C_2H_2

_____ **f.** zinc, Zn

5. Explain why elements and compounds are pure substances.

_____

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_____

6. Determine which of the following are pure substances and which are mixtures.

_____ **a.** salt water

_____ **b.** isopropyl alcohol, C_3H_8O

_____ **c.** mercury, Hg

_____ **d.** ammonia, NH_3

_____ **e.** an egg yolk

_____ **f.** honey

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