

Name: _____

Date: _____

Science _____

Mixtures, Elements, Compounds WS



Is It a Mixture?

Each of the following items describes two substances combining. Decide whether or not each of the resulting combinations could be a mixture. **Then explain why or why not.**

1. Substance A is added to substance B. The freezing point of B is lowered by $9^{\circ}C$.

2. When substance X and substance Y are mixed together, a magnet can remove particles of substance X.

3. Particles of substance B are suspended in substance T.

4. When substance X and substance Z are heated together in a test tube, drops of substance B form on the inside of the test tube.

5. When substance Q is added to substance R, substance R tastes salty.

6. When a solid substance Y is added to liquid substance R, there is a violent explosion. The resulting matter has less mass than the combined masses of Y and R.

Insert Symbol Here . . .



The following sentences contain the names of many elements. Underline the names of the elements as you read. Then rewrite each sentence using the chemical symbols of the elements in place of the names.

1. First we wrapped some sandwiches in aluminum foil, then put some food in tin cans into our backpacks.

2. We looked at jewelry made of gold, copper, and silver.

3. The balloons were filled with helium. _____

4. The mercury in the thermometer was up to the 30^o mark. _____

5. The neon sign over the movie theater advertised an adventure story about prospectors looking for uranium.

6. Lithium is sometimes used as medicine.

7. The vitamin supplements contain calcium, iron, and potassium.

8. The town water supply was reacted with chlorine and fluorine.

9. The solar cell contained a thin layer of silicon.

10. When the glowing splint was placed in the bottle containing hydrogen, it created a "pop".
