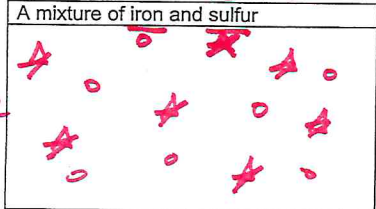
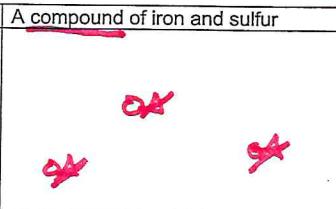


Name Key
Date _____ Pd _____

Classifying Matter Worksheet

1. Draw particle representations for the following:

elements

A mixture of iron and sulfur	A compound of iron and sulfur
	

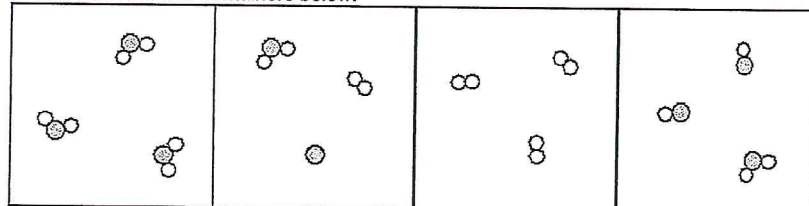
Alone

connected

2. Explain why a magnet can separate iron atoms from the mixture but not from the compound.

A compound has different properties than an element.

3. Consider the four containers below.



- a. Which of these are mixtures? B, D pure substances? A, C

Explain why you classified them this way:

*B + D have different colors + numbers of elements.
A + C are the same throughout.*

- b. Which contain only compounds? A, D only elements C

Explain why you classified them this way:

*A + D are made up of two different elements.
C is made up of one kind of element.*

6. Consider the four containers below.