Name _____   Period _____

Partner_____   Date _____

Modeling: Elements, Mixtures & Compounds

Introduction

Samples of an element, a mixture and a compound may look similar "on the outside", but what do they look like "on the inside"?

This activity using colored beads should help you visualize what is happening inside substances and make the concepts relating to classification of matter easier to understand.

Procedure

At each station you will find a sealed container holding combinations colored beads. Decide if the contents of the container represent an element, a compound, or a mixture. You MAY NOT open the container.

Label the appropriate square on your data sheet and draw the contents of the container.

Container 1	**Container 2**
Contents _____ (element, mixture, compound) Reason for Choice:	Contents _____ (element, mixture, compound) Reason for Choice:
Container 3	**Container 4**
Contents _____ (element, mixture, compound) Reason for Choice:	Contents _____ (element, mixture, compound) Reason for Choice:
Container 5	**Container 6**
Contents _____ (element, mixture, compound) Reason for Choice:	Contents _____ (element, mixture, compound) Reason for Choice:
Container 7	**Container 8**
Contents _____ (element, mixture, compound) Reason for Choice:	Contents _____ (element, mixture, compound) Reason for Choice:

Post lab Questions

1. Which bags represent mixtures?

2. For each of the containers which represent mixtures, decide if the mixture is homogeneous or heterogeneous. In the appropriate column of the table, say whether the components of the mixture were elements or compounds.

Container	Homogeneous mixture	Heterogeneous mixture

3. For each of the containers, name a real life example of the substance represented

Container	Real Life Example
1	
2	
3	
4	
5	
6	
7	
8	