

## Explore It!

### Task Card #2:

1. (White Legos) Elements  
- Students record observations
2. An element is a pure substance that cannot be broken down into any other substance

### Task Card #3:

1. (individual different colored & shaped legos) Mixture  
Students will record their observations
2. A mixture is a combination of many different elements but they are not chemically combined and can be separated.

### Task Card #4:

1. Compounds (different colors & attached to each other.)

## Write It!

### Task Card #1:

A compound is two or more atoms that are chemically combined. You can tell if a chemical formula is a compound if it has more than one type of capital letter.

### Task Card #2:

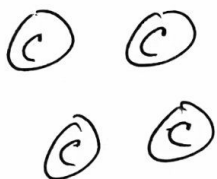
$C_6H_{12}O_6$  - there are three different types of elements C, H, and O. There are three capital letters.

### Task Card #3:

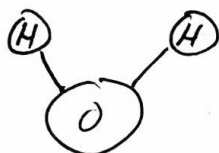
An element is the type of atom. The Periodic Table of Elements lists all the different types.

### Illustrate It!

Element



Compound



Mixture



### Assess It!

#1 D  
#3 C

#2 A  
#4 B

### Read It!

#1 B  
#3 D

#2 B  
#4 A

### Research It!

Task Card #2:

- At least two different types of elements must be present to form a compound.
- A compound has the different elements chemically combined. A mixture does not have the different elements or compounds connected.

- H<sub>2</sub>O - Water
- CO<sub>2</sub> - Carbon Dioxide
- C<sub>6</sub>H<sub>12</sub>O<sub>6</sub> - Glucose

### Organize It!

Compound  
NaOH    HCl  
C<sub>6</sub>H<sub>12</sub>O<sub>6</sub>    CO<sub>2</sub>  
NaCl    CaCO<sub>3</sub>  
H<sub>2</sub>O<sub>2</sub>

Mixture  
Chocolate Milk  
Sand + H<sub>2</sub>O  
NaCl + H<sub>2</sub>O

Elements  
O    N<sub>2</sub>  
C<sub>4</sub>  
Cl  
Cl<sub>3</sub>

## Watch It!

Task Card #2:

A mixture is different from a compound, because mixtures are not chemically combined. Compounds have different elements that are chemically combined.

Task Card #3:

Atoms are held together by bonds that are created in a chemical reaction.

Task Card #4:

$H_2O$  - Compound       $H_2$  - Element

$Fe + S$  - Mixture.