

**matter** is anything that has \_\_\_\_\_ and takes up \_\_\_\_\_.

Some **examples** of matter include... \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, and \_\_\_\_\_.

Some **non-examples** of matter include.... \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, and \_\_\_\_\_.

**element:** a \_\_\_\_\_  
that has only one kind of \_\_\_\_\_.

Create each of the following Lego  
"elements" and draw them below. Be sure  
to include color!

1) Carbon

2) Hydrogen

3) Oxygen

**atom:** the \_\_\_\_\_ unit of an ele-  
ment. Atoms can exist \_\_\_\_\_ OR in  
combination with other \_\_\_\_\_.

In your own words, describe the relation-  
ship between atoms and elements.

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**compound:** a \_\_\_\_\_  
made up of \_\_\_\_\_ or \_\_\_\_\_ different kinds  
of \_\_\_\_\_ bonded together.

Create each of the following Lego  
"compounds" and draw them below. Be sure  
to include color!

1) CO<sub>2</sub> (Carbon Dioxide)

2) H<sub>2</sub>O (Water)

3) CH<sub>4</sub> (Methane Gas)

**molecule:** A \_\_\_\_\_ of \_\_\_\_\_  
bonded together.

What is the difference between a compound  
and a molecule?

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**mixture:** a \_\_\_\_\_ of two or more  
\_\_\_\_\_ (elements or  
compounds) that can be separated by physi-  
cal methods.

Create the following Lego "mixture" and  
draw it below. Be sure to include color!

1) Soda (CO<sub>2</sub> and H<sub>2</sub>O)

## lego key

Carbon:

Hydrogen:

Oxygen:

