Name:	Period:	Date:

Elements, Compounds, and Mixtures

Early in the year, we defined <u>matter</u> as anything that has mass and takes up space. We've also talked about the <u>kinetic theory of matter</u> which states that matter is made of tiny moving particles. The smallest particle of matter that you can make without using a nuclear reactor or million-dollar particle accelerator is called an <u>atom</u>. In the universe around us, there are atoms of about 100 different types, each with different properties.

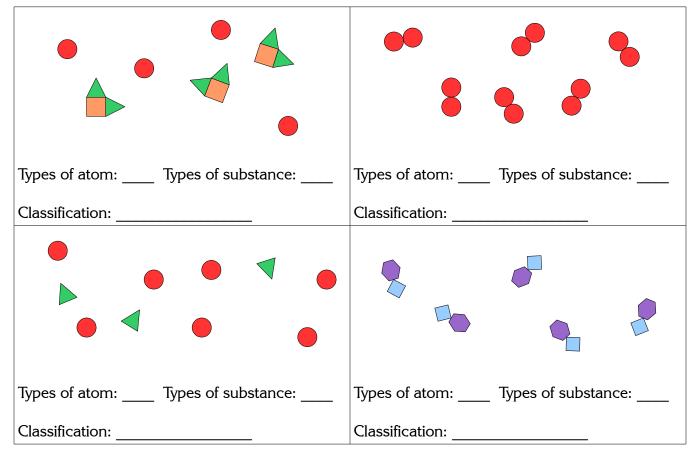
Scientists use these terms to categorize matter:

Element:	
<u>Mixture</u> :	
Compound:	

Elements and compounds are both referred to as **pure substances**. Mixtures are not pure.

Activity

For each particle diagram below, count <u>how many types of atom</u> you see and <u>how many types of substance</u> you see. Then classify the matter as either an element, a mixture, or a compound.



\$	
Types of atom: Types of substance:	Types of atom: Types of substance:
Classification:	Classification:
Types of atom: Types of substance:	Types of atom: Types of substance:
Classification:	Classification:
Types of atom: Types of substance:	Types of atom: Types of substance:
Classification:	Classification:
	[Make up and draw your own here!]
Types of atom: Types of substance:	Types of atom: Types of substance:
Classification:	Classification: