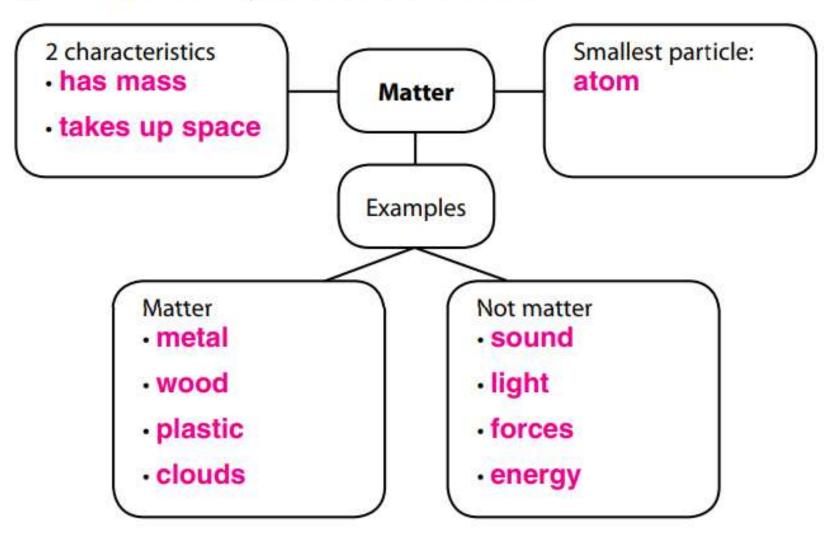




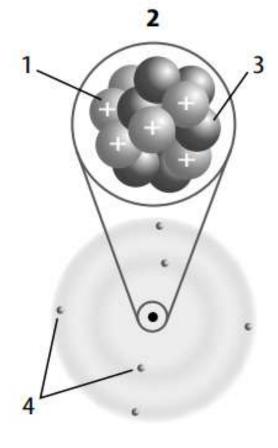


Organize *information about* matter.





Identify and describe the parts of an atom.



- proton positively charged particle in the nucleus
- nucleus the protons and neutrons in the atom's center
- 3. neutron particle with no charge in the nucleus
- 4. electrons negatively charged particles moving in the electron cloud



Relate the number of protons in the nucleus of an atom to the properties of matter.

The number of protons determines the type of atom and the

properties in the matter made up of that type of atom.



Define substance, and identify two examples.

Definition: matter with a composition that is always the

same

Examples: elements and compounds

Examine how atoms of elements differ. Circle the characteristic that gives each type of atom its unique properties.

Example	Aluminum	Oxygen yes	
Is it a substance?	yes		
Is it an element?	yes		
How many protons are in its nucleus?	13	8	
How do its atoms usually exist?	individually	in pairs	

Differentiate elements from compounds.

Element	Compound
a substance that consists of just one type of atom	a substance containing atoms of two or more different elements chemically bonded together

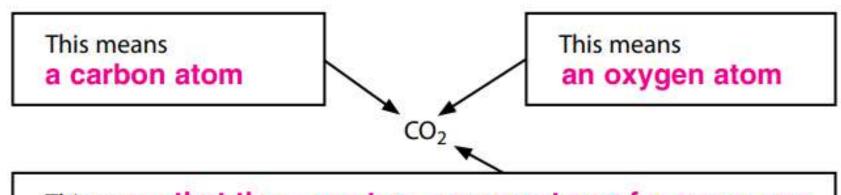
ELEMENT

٧S

COMPOUND



Interpret the chemical formula.



This means that there are two oxygen atoms for every one carbon atom

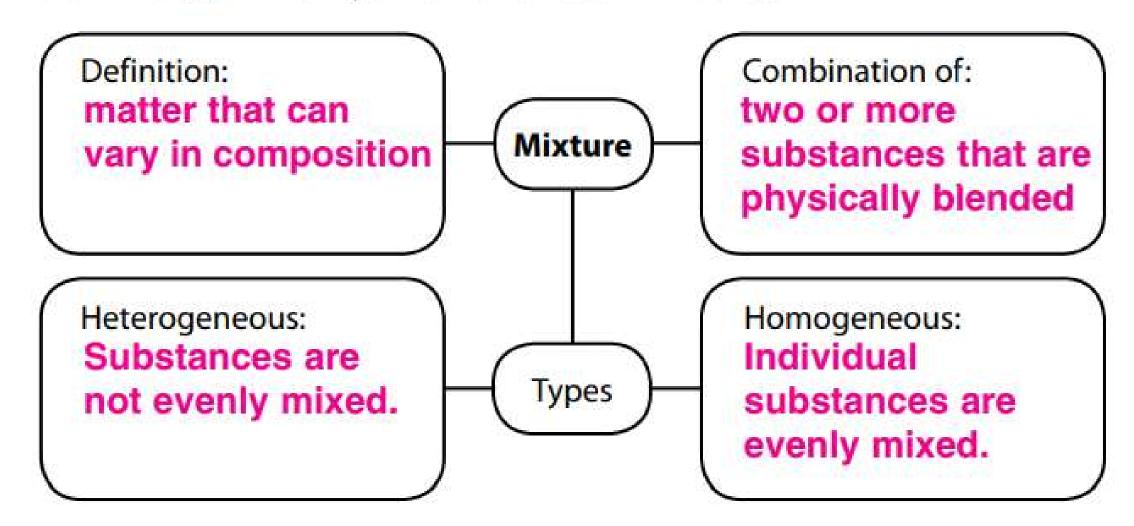
Relate properties of a compound to the properties of the elements of which it is made.

A compound often has different properties from the

individual elements that compose it.



Organize information about mixtures.



Complete the stateme	ent to describ	e how a su	bstance dissolves.
In a solution, the	solvent	is the_	substance
present in the largest	amount; th	ie so	lutes are all
the other substances	that	lissolve	in the solvent.
Explain whether a che	emical formi	ıla can desc	ribe a solution.
A chemical formula	cannot be u	se to desc	ribe a solution
because a solution's	composition	on can var	y.

Order the classifications of matter. Use the words in the box to make a sequence that is true.

