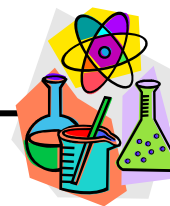


Science 10-4 Unit A: Investigating Properties of Matter

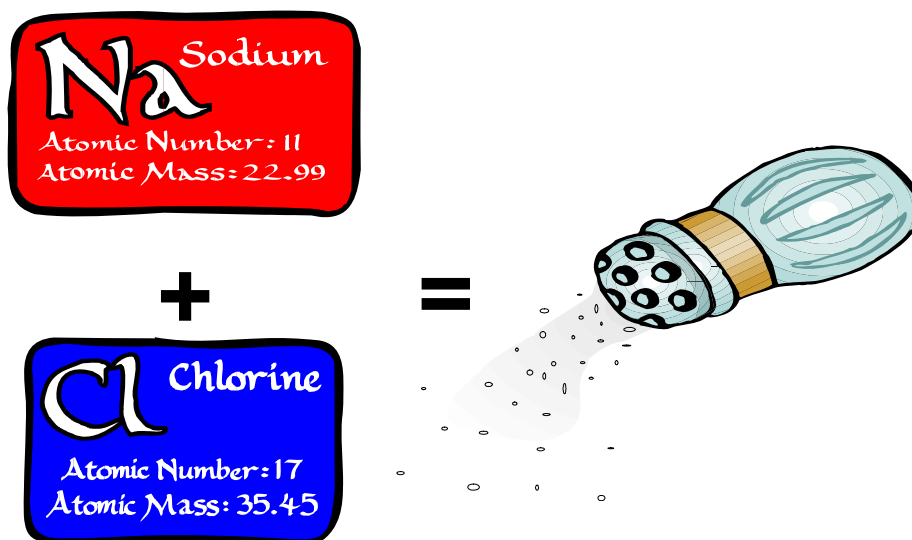


Elements and Compounds

1. Substances such as compounds are made from a combination of elements. Remember that elements are basic natural substances that cannot be broken down into different parts and remain the same. All elements that we know of are shown on the Periodic Table of Elements.

Obtain a copy of the period table and identify familiar elements, such as carbon, oxygen, iron and hydrogen.

List any compounds you can think of that contain these elements, e.g., table salt is made of the elements sodium and chlorine. (NaCl)



2. Investigate and create a chart that compares metals, nonmetals and metalloids based on their properties; e.g.:

- lustre
- conductivity
- malleability
- brittleness
- state of matter.



3. With a group, create a quiz game in which you must locate the names and properties of elements on the periodic table. Exchange your game with another group and play the game. Keep trading and playing until you have had a chance to play all of the games.



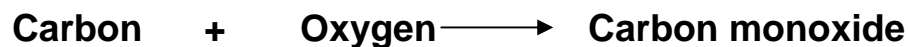
4. Identify and write word equations for common elements and simple compounds.

Examples:

Reactants	Products
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Iron reacts with oxygen and water to produce rust.



Carbon reacts with oxygen to produce carbon monoxide.