

Quiz 1.1 – Matter and Elements

Name: Key

Question 1

Indicate whether the following are *physical* or *chemical* changes:

- Cutting a sheet of paper Physical
- A metal tool rusting in the rain Chemical
- Ice melting in a glass of water Physical
- Sugar dissolving in a glass of water Physical
- A battery discharging as it is being used Chemical

Question 2

Classify each of these substances as one of the following:

Pure Element Pure Compound Homogeneous Mixture Heterogeneous Mixture

- Salt Water Homogeneous Mixture
- Helium Gas Pure Element
- Sugar Cubes Pure Compound
- Marble Rye Bread Heterogeneous Mixture
- The Air Around Us Homogeneous Mixture

Question 3

Give the name or symbol for each element, and classify it as a metal, non-metal, or metalloid

Symbol	Name	Classification
<u>O</u>	Oxygen	<u>non-metal</u>
Ge	<u>Germanium</u>	<u>metalloid</u>
<u>Br</u>	Bromine	<u>non-metal</u>
Al	<u>Aluminum</u>	<u>metal</u>