

Chemistry: Grade 9 Academic Quiz Review

Key Words: *Metals, Non-metals, Metalloids, Malleable, Ductile, Conductivity, Chemical Families, Alkali Metals, Alkaline Earth Metals, Halogens, Noble Gases, Pure Substances, Mixtures, Mechanical (Heterogeneous) Mixtures, Solutions (Homogeneous), Quantitative Observations, Qualitative Observations, Alloys, Physical Properties, Chemical Properties, Physical Change, Chemical Change*

Metals, Non-metals, & Metalloids [LAB] (Pages 220-222, 224-227, 228-229) See in class note on "Metals, Non-metals, & Metalloids" & "Metals vs. Non-Metals Lab"

- Which group on the periodic table do each of the following chemical families belong to:
 - Alkali Metals
 - Alkaline Earth Metals
 - Halogens
 - Noble Gases
- Create a table as shown below and compare the properties of Metals to Non-Metals:

Physical Properties	Metals	Non-Metals
Lustre		
Conductivity		
Most common state at room temperature		
Malleability or Brittleness		
Ductility		
Hardness		

- What properties might you expect of metalloids? Explain why semi-conductors are useful for electronics.

Mixtures and Pure Substances (Pages 190-191)

See note Worksheet on "Pure Substance vs Mixture"

- Which of the following sentences best explains why water evaporates at its boiling point:
 - Water molecule become attracted to the air
 - Water molecules move rapidly and spread further apart