

# Periodic Families

## Group 1: Alkali Metals

Appearance

General Reactivity

Occurrence and Extraction

Physical Properties

Examples:

***Draw Bohr-Rutherford Diagrams for the following Alkali Metals***

Lithium

Sodium

Potassium

Based on these diagrams, how many electrons are in the outside shell of all alkali metals?

## Hydrogen

Appearance

General Reactivity

Occurrence and Extraction

Physical Properties

***Draw a Bohr-Rutherford Diagrams for Hydrogen***

According to this diagram, how many outer electrons does hydrogen have?

## Group 2: Alkaline Earth Metals

Appearance

General Reactivity

Occurrence and Extraction

Physical Properties

Examples:

***Draw Bohr-Rutherford Diagrams for the following Alkaline Metals***

Beryllium

Magnesium

Calcium

Based on these diagrams, how many electrons are in the outside shell of all alkaline metals?

## Group 17: Halogens

Appearance

General Reactivity

Occurrence and Extraction

Physical Properties

***Draw a Bohr-Rutherford Diagrams for the following Halogens***

Fluorine

Chlorine

Based on these diagrams, how many electrons are in the outside shell of halogens?

<b>Group 18: Noble Gases</b>		
Appearance		
General Reactivity		
Occurrence and Extraction		
Physical Properties		
Examples:		
<b><i>Draw Bohr-Rutherford Diagrams for the following Noble Gases</i></b>		
Helium	Neon	Based on these diagrams, how many electrons are in the outside shell of Noble Gases?

Based on the videos or demonstrations, describe the following reactions:

Magnesium + Water:

Lithium + Water:

Sodium + Water:

Potassium + Water:

Burning of Iodine: