Chemistry Lesson Plan

Topic	Structure and Properties of Matter
Lesson Title	Periodic Table
Lesson Number	7b
Next Generation Science Standards:	***HS-PS1-1.*** Use the periodic table as a model to predict the relative properties of elements based on the patterns of electrons in the outermost energy level of atoms. ***HS-PS1-2.*** Construct and revise an explanation for the outcome of a simple chemical reaction based on the outermost electron states of atoms, trends in the periodic table, and knowledge of the patterns of chemical properties.
Learning objectives:	• Outline the arrangement of the modern periodic table, identifying the metals, non-metals and metalloids. • Compare and contrast the properties of metal, non-metal and metalloids
"I can" statement:	• I can locate the metals, non-metals and metalloids using the periodic table and compare their properties.

Prior Knowledge:

- Atomic and mass numbers
- Arrangement of the periodic table into groups.

Vocabulary:

Atomic number, atomic mass, property, groups, metal, non-metal, metalloid, semi-metal, semi-conductor, lustre, malleable, ductile, sonorous, brittle, density,

Summary of Activities:

1. Distribute and complete bell ringer activity.
2. Discuss guided notes and slideshow, with students.
3. Complete the Vocabulary worksheet (if time allows)
4. Exit quiz

Additional Resources:

YouTube clip on:

- Metals, non-metals and metalloids

Homework:

Homework task

Assessment:

- Bell work
- Exit quiz
- End of unit review