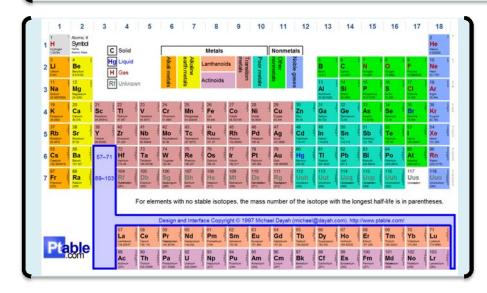
Science 9 - Chemistry Ms. Plensky

## Elements, Compounds and Environmental Change



**MY QUESTIONS:** 

MY QUESTIONS

BIG IDEA: Chemicals in our environment can lead to severe and irreversity threathand its land leading in the severe and irreversity threathand its land in the severe and its sustainability. Applying chemisxtry environmental conditions is an application of science. laboratory practices.

- Use and apply the periodic table to classify elements based on their properties.
- Write chemical formulae for compounds with metals and non-metals.
- Describe and distinguish between atoms, molecules, and compounds.
- Develop and use Bohr models.

## **Key Words**

- element
- subatomic particle
- atom
- compound
- molecule
- Atomic theory
- Electron, proton, neutron
- chemical property
- physical property
- ionic, covalent
- periodic table of elements

KNOWING - Knowledge and Unde

ı Yes, I I am **Learning Goal** getting know am



Science 9 – Chemistry

Ms. Plensky

new	there.	this!	
to			
this.			
			I can summarize the atomic theory, including reference to Dalton, Rutherford, and Bohr.
			I can identify and describe the three subatomic particles.
			I can distinguish between atoms, ions, molecules, and compounds.
			I can describe how the periodic table is organized.
			I can distinguish between metals, non-metals, and metalloids.
			I can give examples of chemistry's role in environmental changes.
			I can summarize practical examples of innovations in environmental chemistry.

DOING - Skills				
am new to this.	I am getting there.	Yes, I know this!	Learning Goal	
			I can use laboratory equipment safely.	
			I can use the periodic table to predict properties of elements.	
			I can draw Bohr models for all the elements up to atomic number 20.	
			I can use Bohr models to differentiate between the structures of atoms and ions.	
			I can write chemical symbols for atoms and ions.	
			I can write chemical formulae for compounds with metals and non-metals.	
			I can write formulae for ionic compounds with multivalent metals.	
			I can write formulae for ionic compounds with <b>polyatomic ions</b> .	
			I can name ionic compounds given chemical formulae.	