

Unit 2 – Periodic Table

C4.9A Identify elements with similar chemical and physical properties using the periodic table.

C4.9A.a I can identify elements with similar chemical properties using the periodic table.

C4.9A.b I can identify elements with similar physical properties using the periodic table.

C4.9b Identify metals, non-metals, and metalloids using the periodic table.

C4.9c Predict general trends in atomic radius, first ionization energy, and electronegativity of the elements using the periodic table.

C4.10c Calculate the average atomic mass of an element given the percent abundance and mass of the individual isotopes.

C4.10d Predict which isotope will have the greatest abundance given the possible isotopes for an element and the average atomic mass in the periodic table.

C5.2g Calculate the number of atoms present in a given mass of element.

C5.5A Predict if the bonding between two atoms of different elements will be primarily ionic or covalent.

C5.5A.a I can identify that an ionic compound is made of a metal and nonmetal.

C5.5A.b I can identify that a covalent compound is between two nonmetals or a metalloid and a nonmetal.

C5.5A.c I can predict if the bond formed between two atoms will be covalent or ionic.

C5.5B Predict the formula for binary compounds of main group elements.

C5.5c Draw Lewis structures for simple compounds.

C5.5d Compare the relative melting point, electrical and thermal conductivity, and hardness for ionic, metallic, and covalent compounds.