

## Hayward Community Schools Curriculum Map

<b>Grade Level(s):</b>	10, 11, 12	<b>Unit:</b>	Atoms: The Building Blocks of Matter	<b>Subject:</b>	Chemistry
<b>When We Teach this Unit</b>		<b>What We Teach in this Unit ( ICAN, Goals, or Objectives)</b>		<b>Standards Addressed</b>	<b>Assessment Type</b>
2 weeks		Students will explain the law of conservation of mass, the law of definite proportions, and the law of multiple proportions.		HS-PS1	SR, PA, CR, O
		Students will summarize the five essential points of Daltons Atomic Theory and identify those that have been modified with technological		HS-PS1	SR, PA, CR, O
		Students will explain the relationship between Dalton's Atomic Theory and the law of conservation of mass, the law of definite		HS-PS1	SR, PA, CR, O
		Students will summarize the observed properties of cathode rays that led to the discovery of the electrons.		HS-PS1	SR, PA, CR, O
		Students will summarize the experiment carried out by Rutherford and his co-workers that led to the discovery of the nucleus.		HS-PS1	SR, PA, CR, O
		Students will list the properties of protons, neutrons, and electrons.		HS-PS1	SR, PA, CR, O
		Students will define an atom.		HS-PS1	SR, PA, CR, O
		Students will explain what isotopes are.		HS-PS1	SR, PA, CR, O
		Students will define atomic number and mass number, and describe how they apply to isotopes.		HS-PS1	SR, PA, CR, O
		Students will, given the identity of a nuclide, determine its number of protons, neutrons, and electrons.		HS-PS1	SR, PA, CR, O
		Students will define the mole in terms of Avogadro's number, and define molar mass.		HS-PS1	SR, PA, CR, O

**Assessment Types:**

SR=Selected Response (matching, multiple choice, T/F) PA=Performance Assessment (performance or authentic tasks)

CR=Constructed Response (short answer/essay) O=Observation (interactive and non-interactive)