

Hayward Community Schools Curriculum Map

Grade Level(s):	10, 11, 12	Unit:	The Arrangement of Electrons in Atoms	Subject:	Chemistry
When We Teach this Unit		What We Teach in this Unit (ICAN, Goals, or Objectives)		Standards Addressed	Assessment Type
1 week		Students will list the four quantum numbers, and describe their significance.		HS-PS1-1	SR, PA, CR, O
		Students will relate the number of sublevels corresponding to each of an atom's main energy levels, the number of orbitals per		HS-PS1-1	SR, PA, CR, O
		Students will list the total number of electrons needed to fully occupy each main energy level.		HS-PS1-1	SR, PA, CR, O
		Students will state the Aufbau principle, the Pauli exclusion principle, and Hund's rule.		HS-PS1-1	SR, PA, CR, O
		Students will describe the electron configurations for the atoms of any element using orbital notation, electron configuration notation,		HS-PS1-1	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)