



Oxford City Schools

Proficiency Scale

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GRADE LEVEL: 11/12 COURSE NAME: AP Chemistry
MEASUREMENT TOPIC: Predict trends using models of Atomic Structure

4

In addition to Score 3, the student makes in-depth inferences and applications.

- Explain the connection between particulate level and macroscopic properties using models and representations.

3

The student can:

- **Explain chemical patterns using theories and models.**
- **Use evidence to support a claim that connects evidence with chemical theories.**

2

The student can:

- **Use representations to explain atomic structure.**
- **Analyze graphical data to identify patterns of atomic structure.**
- **Use mathematical stoichiometry routines.**

1

With help, a partial understanding of some of the simpler details and processes and some of the more complex ideas and processes.

Key Vocabulary: Photoelectron Spectroscopy (PES), Coulomb's Law, Mass Spectroscopy, Ore, Ionization Energy, Atomic and Ionic Radii, Electron Affinity, Electronegativity