



Oxford City Schools

# Proficiency Scale

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**GRADE LEVEL: 11/12      COURSE NAME: AP Chemistry**  
**MEASUREMENT TOPIC: Explain Chemical Structures to make Claims**

**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:

- **Support a claim with chemical models and properties.**
- **Explain chemical structures of molecular & ionic models.**

**2**

The student can:

- **Represent chemical structures to make claims.**
- **Use chemical models that illustrate both particulate & molecular properties.**

**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: Resonance, Formal Charge, Bond Hybridization, Alloys, Intramolecular Force, Valence Shell Electron Pair Repulsion (VSEPR)**