



Oxford City Schools

# Proficiency Scale

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**GRADE LEVEL: 10/11      COURSE NAME: IB Chemistry**  
**MEASUREMENT TOPIC: Model Particulate Nature of Matter**

**4**

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

**3**

The student will:

- **Explain models that represent**
  - **intramolecular bonds within the molecule**
  - **intermolecular physical forces between molecules**
- **Predict the properties of a compound from**
  - **models**
  - **experimental data**

**2**

The student will:

- Describe the forces that exist between covalent molecules.
- Use models to demonstrate the structure of ionic, covalent & metallic compounds.
- Understand electrostatic attractions within ionic and metallic compounds.
- Demonstrate the nature and properties of ionic, covalent & metallic compounds.

**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:**