



Oxford City Schools

Proficiency Scale

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GRADE LEVEL: 10-12 COURSE NAME: Chemistry
MEASUREMENT TOPIC: Construct an Explanation of Atomic Interactions

4	In addition to Score 3, the student makes in-depth inferences and applications.
3	The student can: <ul style="list-style-type: none">● Explain the effects of <u>intramolecular</u> forces on atoms.● Use multiple types of evidence to verify <u>intramolecular</u> forces.
2	The student can: <ul style="list-style-type: none">● Use data to determine the polarity of the molecule● Develop and use models to predict the shape of the molecule● Develop and use Lewis Dot Diagram to represent <u>intramolecular</u> forces
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: Intramolecular Forces, Molecular Geometry, Bond Order, Dipole Moment, Hybridization, Valence Shell, Electron Repulsion Theory (VSEPR), Electron domains, Potential Bond Energy