



Oxford City Schools

# Proficiency Scale

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**GRADE LEVEL: 10-12    COURSE NAME: Chemistry**  
**MEASUREMENT TOPIC: Evaluate Colligative Properties of Solutions**

<b>4</b>	In addition to Score 3, the student makes in-depth inferences and applications.
<b>3</b>	The student can: <ul style="list-style-type: none"><li>● <b>Design experiments to evaluate the effect of solute concentration on the colligative properties of a solution</b></li><li>● <b>Explain the effects of temperature and pressure on solubility of solutions</b></li><li>● <b>Use mathematics and computational thinking to prepare solutions.</b></li></ul>
<b>2</b>	The student can: <ul style="list-style-type: none"><li>● Calculate concentrations of solutions using molarity and molality</li><li>● Analyze data to interpret the effects of solubility of matter</li><li>● Develop and use models to illustrate solute-solvent interactions</li></ul>
<b>1</b>	With help, a partial understanding of some of the simpler details and processes and some of the more complex ideas and processes.

**Key Vocabulary: Dilute, Solvation, Concentration, Vapor Pressure, Molarity, Molality, Entropy, Dissociation**