



Oxford City Schools

Proficiency Scale

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GRADE LEVEL: 10-12 COURSE NAME: Chemistry
MEASUREMENT TOPIC: Use Mathematical Models with Reaction Stoichiometry

4	In addition to Score 3, the student makes in-depth inferences and applications.
3	The student can: <ul style="list-style-type: none">• Use mathematical models to verify mass is conserved• Determine the limiting reactant of a chemical reaction<ul style="list-style-type: none">• Qualitatively• Quantitatively
2	The student can: <ul style="list-style-type: none">• Use mathematical models to identify relationships between theoretical, actual, & percent yields• Use the mole concept to solve reaction stoichiometry problems• Use balanced equations to validate molar ratios in a chemical equation
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: Molar ratios, theoretical/actual/percent yield, limiting reactant, excess reactant, reaction stoichiometry