Grade Level: 10-12 Course Name: Chemistry



Proficiency Scale

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GRADE LEVEL: 10-12 COURSE NAME: Chemistry MEASUREMENT TOPIC: Use Models to Explain Chemical Reactions	
4	In addition to Score 3, the student makes in-depth inferences and applications.
3	 Construct explanations using various models of chemical reactions that satisfy the Law of Conservation of Mass Use models to represent chemical reactions that satisfy the Law of Conservation of Mass
2	 Use reasoning to balance chemical reactions to satisfy the Law of Conservation of Mass Analyze data and interpret how the factors affect the rate of chemical reactions Bond Energy Temperature (endo/exothermic) Collision Theory (particle size,concentration, catalyst) Classify types of chemical reactions based on reactants and products

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With help, a partial understanding of some of the simpler details and processes and some of the more complex ideas and processes.

Key Vocabulary: Law of Conservation of Mass, Synthesis, Decomposition, Combustion, Single Replacement, Double Replacement, Catalyst, Endothermic and Exothermic