Grade Level: 10/11
Course Name: IB Chemistry

Oxford City Schools

Proficiency Scale

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GRADE LEVEL: 10/11 COURSE NAME: IB Chemistry
MEASUREMENT TOPIC: Analyze Energy in Chemical Systems

4	In addition to Score 3, the student makes in-depth inferences and applications. • Investigate energy changes for chemical systems

3	The student will:
	• **Analyze energy changes for chemical systems**
	• **Calculate enthalpy change for reactions from:**
	  • **ΔH°**
	  • **Q = mcΔT**
	  • **Average bond enthalpy**
	  • **Hess's Law**

2	The student will: • Explain how a fuel cell can be used to convert chemical energy directly to electrical energy. • Understand the difference between renewable & non-renewable energy sources. • Understand how temperature change (decrease or increase) accompanies endothermic & exothermic reactions.

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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:	