



Oxford City Schools

Proficiency Scale

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GRADE LEVEL: 10-12 COURSE NAME: Physical Science
MEASUREMENT TOPIC: Prove Energy Conservation

4	In addition to Score 3, the student makes in-depth inferences and applications.
3	The student can: <ul style="list-style-type: none">• Prove the conservation of energy and momentum in all systems.• Plan and carry out investigations of energy transformations using:<ul style="list-style-type: none">• Kinetic energy• Potential energy• Elastic Potential energy• Work
2	The student can: <ul style="list-style-type: none">• Isolate and solve for variables within types of energy and momentum.• Evaluate impact of variables on energy.• Analyze the effects of collisions.• Compare and contrast types of energy.

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: Energy, momentum, mass, velocity, force, kinetic, potential, work