



Oxford City Schools

Proficiency Scale

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GRADE LEVEL: 8 COURSE NAME: SCIENCE
MEASUREMENT TOPIC: EXPLAIN ENERGY CONSERVATION

4	<ul style="list-style-type: none">• Apply the law of Conservation of Energy to develop arguments supporting the claim that when kinetic energy of an object changes, energy is transformed from one form to another.
3	<ul style="list-style-type: none">• Use models to construct an explanation of how energy is transformed but still conserved. (15)• Analyze graphical displays of data to describe the relationship of mass and velocity of an object to its kinetic energy (KE). (13)• Use models to construct an explanation of how a system of objects may contain varying amounts of potential energy, including gravitational, elastic, and chemical. (14)
2	<ul style="list-style-type: none">• Explain how energy is transformed from one form to another.• Develop a graphical display of data that illustrates the relationships between energy, mass, distance, and/or speed of an object.• Identify varying 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:

Law of conservation of energy, transformations, kinetic energy, gravitational potential energy, elastic potential energy, chemical potential energy.