



Oxford City Schools

Proficiency Scale

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GRADE LEVEL: 4 COURSE NAME: Science
MEASUREMENT TOPIC: Explain Energy Transfer

4

In addition to Score 3, the student makes in-depth inferences and applications.

3

- Design, construct, and test a device that changes energy from one form to another.
- Construct an explanation with evidence supporting the claim that different objects can absorb, reflect, and/or conduct energy.
- Plan and carry out investigations to answer questions regarding changes in energy when objects collide, and predict reasonable outcomes based on observed patterns.

2

- Use evidence to explain the relationship between the speed of an object and its energy.
- Construct an explanation using evidence to support the claim that heat can be produced in many ways.
- Identify various 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: collision, absorb, converting