



Oxford City Schools

Proficiency Scale

Are you looking for resources to help your child? [Click Here](#)

GRADE LEVEL: 8 COURSE NAME: SCIENCE

MEASUREMENT TOPIC: DESIGN AND TEST A DEVICE THAT CHANGES THERMAL ENERGY

4

- Investigate how energy is transferred by some other means than temperature

3

- **Design and test a device that can release or absorb thermal energy by chemical reactions. (7a)**
- **Analyze data from an investigation to determine whether thermal energy is released or absorbed in a chemical reaction. (7)**

2

- **Develop and manipulate models to explain changes in particle motion, temperature, and state of a pure substance when thermal energy is added to or removed from a system. (2)**
- Investigate the change in thermal energy within a chemical reaction.

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:

endothermic, exothermic, system, thermal energy, chemical reaction