

## Chapter 6 Thermal Energy

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### Chapter 6 Lesson 1 Thermal Energy, Temperature, and Heat

The thermal energy of a substance is the sum of the kinetic and potential energy of its molecules. The kinetic energy increases as the mole- cules move faster. The poten- tial energy increases as the molecules move farther apart.

### 6 Thermal Energy—Skyline High School Physical Science

Because thermal energy is the total kinetic and potential energy of all the particles in an object, the thermal energy of the object increases when the average kinetic energy of its particles increases. Thermal Energy and Mass Suppose you have a glass and a beaker of water that are at the same temperature. 6.1

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