

AMPLIFY SCIENCE – MIDDLE SCHOOL

THERMAL ENERGY

KEY CONCEPTS NOTES

THERMAL ENERGY KEY CONCEPTS

Unit Question: Why do things change temperature?

Concept 1: Thermal energy is the total kinetic energy of all the particles in an object.

1. What is thermal energy?

2. How does thermal energy change?

3. How does thermal energy change?

4. How does thermal energy change?

5. How does thermal energy change?

6. How does thermal energy change?

7. How does thermal energy change?

8. How does thermal energy change?

9. How does thermal energy change?

10. How does thermal energy change?

Concept 2: Thermal energy is transferred between objects by conduction, convection, and radiation.

1. How does thermal energy change?

2. How does thermal energy change?

3. How does thermal energy change?

4. How does thermal energy change?

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8. How does thermal energy change?

9. How does thermal energy change?

10. How does thermal energy change?

THERMAL ENERGY GLOSSARY

Thermal Energy: The total kinetic energy of all the particles in an object.

Temperature: A measure of the average kinetic energy of the particles in an object.

Heat: The transfer of thermal energy from one object to another.

Conduction: The transfer of thermal energy through direct contact between particles.

Convection: The transfer of thermal energy through the movement of fluids.

Radiation: The transfer of thermal energy through electromagnetic waves.

Insulation: A material that reduces the transfer of thermal energy.

Thermometer: A device used to measure temperature.

Thermal Expansion: The increase in volume of a substance as its temperature increases.

Thermal Contraction: The decrease in volume of a substance as its temperature decreases.

Thermal Equilibrium: The state in which two objects have the same temperature.

Thermal Energy Storage: The ability of a material to store thermal energy.

Thermal Energy Conversion: The process of converting thermal energy into other forms of energy.

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AMPLIFY SCIENCE'S WORD WALL

Thermal Energy Notetaking Guide

JE Gale

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