

## Thermal Energy

### Study Guide

Use this study guide to prepare. All the terms you see on here will be on the test!!  
Use the definitions, examples, and pictures to help you remember the terms.

You can find the some videos about thermal energy at this website:

<http://robinson47.blogspot.com/>

Terms	Definition	Examples
Radiation	Radiation is energy that travels through space in waves or rays. Does not require matter to touch.	<ul style="list-style-type: none"><li>• A special light bulb heats a lizard's tank.</li><li>• Popcorn cooks in a microwave.</li><li>• The sun heats the roof of your house.</li></ul>
Conduction	Conduction is energy that transfers when two things are touching. These things can be solid or liquid.	<ul style="list-style-type: none"><li>• A pot gets hot on the stove.</li><li>• A coin gets warmer the longer you hold it in your hand.</li></ul>
Convection Currents	Convection Currents are patterns of flowing heat energy. Hot air and water rise. Cool air and water sink.	<ul style="list-style-type: none"><li>• The part of the ocean near the surface is warmest. The part of the ocean near the bottom is coldest.</li><li>• A mobile spins from a heater below it. [Remember the Midea??]</li></ul>
Insulator	A material that LIMITS how much heat can go through it.	<ul style="list-style-type: none"><li>• A cooler keeps drinks cold.</li><li>• A wooden pot handle is safe to touch.</li><li>• A marble floor feels cool.</li><li>• A jacket keeps you warm.</li></ul>
Conductor	A material that heat moves through easily.	<ul style="list-style-type: none"><li>• A steel spoon heats up quickly in hot water.</li><li>• A copper penny warms up in your hand.</li><li>• A metal pot on the stove is too hot to touch with bare hands.</li></ul>
Thermal Energy	Energy caused by matter's particles moving in all directions.	<ul style="list-style-type: none"><li>• Convection currents.</li><li>• Conduction.</li><li>• Radiation.</li></ul>
Temperature	How hot something is. This is based on how quickly or slowly particles of energy are moving.	<ul style="list-style-type: none"><li>• You have a high temperature when you have a fever.</li></ul>

# Thermal Energy Study Guide Answer Key

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## **Thermal Energy Study Guide Answer Key:**

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