

## Science Study Guide – Chapter 12

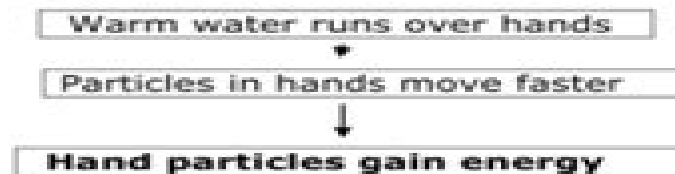
### Energy

Heat is the flow of **thermal energy**.

**A campfire** has the fastest moving particles.

In order for conduction to occur, two objects must be **touching**.

Study the diagram below:



A glass baking dish will crack if moved from a very hot oven directly into the freezer. This is because **heat causes matter to expand, and cold causes matter to contract**. When a very hot object like glass is cooled off too quickly, it contracts fast and cracks.

Humans produce sound when their vocal chords **vibrate**.

The distance from the top of one sound wave to the top of the next sound wave is called a **wavelength**.

The loudness or softness of sound is called **volume**.

Sonar measures underwater distances by using **echoes**.

Do you think that sound would travel faster through wood or water? **Sound would travel faster through wood. Sound is created when particles bump into each other. Since particles in a solid are closer together than water particles, sound travels faster through wood.**

The following statement is NOT true about white light: **it contains only yellow and blue.**

Sunburn is caused by **ultraviolet light**.

# Thermal Energy Ch 12 Study Guide

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Pratap Singh,Aritra Ghosh,2024-07-24 The text begins by discussing the sustainable buildings energy efficient technologies advanced materials advances in renewable energy for building sector green intelligent infrastructure policies on sustainable infrastructure and life cycle assessment It further presents design considerations challenges and applications of net zero energy buildings with a global perspective The book covers renewable energy technologies for energy efficient buildings This

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