

## Topic 4 Lesson 3 Study Guide

What is pitch and how does it affect sound?

Pitch- how fast or slow the particles vibrate

high pitch - particles vibrate faster

low pitch – particles vibrate slower

What is heat & how is heat transferred?

Heat is the transfer of thermal energy from one object to another.

Heat is transferred through radiation, conduction, or convection

List 4 forms of energy

Light, kinetic, sound, thermal, electrical

What is sound energy and how do we observe?

Sound energy is energy in particles that vibrate as they pass through matter.

We can see or feel objects vibrate when making a sound. We hear sounds through sound waves.

What are natural forms of light energy?

Sun & stars. Most of Earth's light energy comes from the sun

What is radiation?

Radiation is energy that travels as a wave. It transfers heat through air or open space

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What form of energy is related to temperature of an object?

Thermal energy- heat

Give 3 examples of energy being transferred?

Cooking on a stove

A cold object becoming warm when put into something hot

Heat radiation from a campfire warming the people sitting by it

What are thermal cameras and why are they used?

Cameras that sense the warmth (heat) of an object. They are used to see objects at night.

Define wave:

A form of the transfer of energy

Define generate:

Produce, make something

Define light:

A form of energy we can see with our eyes