

GRADE 6

3. Heat (Thermal Energy) (Physical Science) Heat moves in a predictable flow from warmer objects to cooler objects until all the objects are at the same temperature. As a basis for understanding this concept:

- a. Students know energy can be carried from one place to another by heat flow or by waves, including water, light and sound waves, or by moving objects.
- d. Students know heat energy is also transferred between objects by radiation (radiation can travel through space).

4. Energy in the Earth System: Many phenomena on Earth's surface are affected by the transfer of energy through radiation and convection currents. As a basis for understanding this concept:

- a. Students know the sun is the major source of energy for phenomena on Earth's surface; it powers winds, ocean currents, and the water cycle.
- b. Students know solar energy reaches Earth through radiation, mostly in the form of visible light.

GRADE 7

6. Physical Principles in Living Systems: Physical principles underlie biological structures and functions. As a basis for understanding this concept:

- a. Students know visible light is a small band within a very broad electromagnetic spectrum.