

Thermal Energy Transfer Unit Test Study Guide



Remember, Thermal Energy only transfers in one direction—from warmer systems to cooler systems in order to reach equilibrium. Why doesn't heat transfer from cooler systems to warmer ones?

Endothermic and Exothermic Reactions

Define Endothermic:

Define Exothermic:

Tell whether each scenario below is endothermic or exothermic by circling the best answer. Then explain your reasoning. .

1. Butter melting on a warm piece of toast

Endothermic **Exothermic**

Why?

2. Water freezing into ice cubes in the freezer

Endothermic **Exothermic**

Why?

3. Baking brownies in an oven

Endothermic **Exothermic**

Why?

Conduction, Convection, and Radiation

Define each method of thermal energy transfer in the space below.

Conduction	Convection	Radiation

Write the correct type of thermal energy transfer for each image below. There may be more than one method of transfer present—choose the one that is most efficient.

1. _____



The water in this pot begins to boil

2. _____



Grilling hamburgers over charcoal flame

3. _____



A hot air balloon rises

4. _____



The heat you feel from a campfire

Review Your Homework Assignments!!! The same types of questions will appear on your test!