

# Heat Transfer Webquest

Name: \_\_\_\_\_

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What is heat? You can't hold it or keep it locked up. It is energy. Heat transfers from hot objects to cooler objects in 3 major ways. They are radiation, conduction and convection. In this webquest, you will investigate the 3 types of heat transfer. Then answer the questions in complete sentences.

**Task # 1:** <http://d3tt741pwxqwm0.cloudfront.net/WGBH/conv16/conv16-int-thermalenergy/index.html/>

## Thermal Energy

1. What is the energy of motion known as?
2. Thermal energy depends on what two things? A. \_\_\_\_\_ B. \_\_\_\_\_
3. What is heat a measure of?

## Conduction

4. What is conduction?
5. Describe how the heat transfers when the burner is lit.

## Convection

6. What is convection?
7. When you light the stove, what happens to the water?

## Radiation

8. What is radiation?
9. Describe what is happening to the hot pot (that is no longer on the stove).

## The Sun Warms Earth

10. Describe conduction on Earth.
11. Describe convection on Earth.
12. Describe radiation on Earth.

## Around a Campfire

13. Describe conduction around a campfire.
14. Describe convection around a campfire.
15. Describe radiation around a campfire.

----- Skip "Staying cool on a hot day"-----

## Solar Energy in Your Home

16. Describe conduction in your home.
17. Describe convection in your home.
18. Describe radiation in your home.

