

Learning Target: I can describe and explain thermal energy changes in terms of conduction, convection, and radiation.



[Thermal Energy Changes 101 Video Review](#)

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1. What is temperature? \_\_\_\_\_  
What happens when you increase the temperature? \_\_\_\_\_  
What happens when you decrease the temperature? \_\_\_\_\_
2. What are we really saying when we say it's hot or cold outside? \_\_\_\_\_
3. The three units for temperature are \_\_\_\_\_
4. Thermal energy is the \_\_\_\_\_
5. How does heat flow? \_\_\_\_\_
6. How can that be demonstrated when burning a piece of paper? \_\_\_\_\_
7. How does energy transfer? \_\_\_\_\_
8. Why is there no such thing as cold? \_\_\_\_\_

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**Check for Understanding 1 – Fill in the blanks for the following sentences.**

1. As Temperature increases, Kinetic energy \_\_\_\_\_.
2. The less particles move, the \_\_\_\_\_ Kinetic energy they have.
3. If Kinetic energy lowers, the \_\_\_\_\_ lowers as well.
4. Temperature is the measure of \_\_\_\_\_.
5. As \_\_\_\_\_ increases, Kinetic energy \_\_\_\_\_ as Temperature decreases \_\_\_\_\_ decreases. This is a \_\_\_\_\_ relationship.

9. Give an example of conduction and explain why it is this. \_\_\_\_\_  
\_\_\_\_\_

10. Why are metals good conductors of thermal energy? \_\_\_\_\_  
\_\_\_\_\_

11. Give an example of convection and explain why it is this. \_\_\_\_\_  
\_\_\_\_\_

12. What is radiation? \_\_\_\_\_

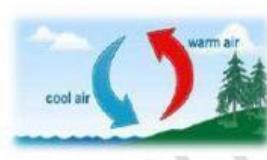
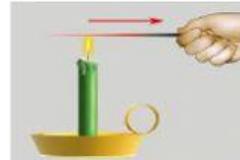
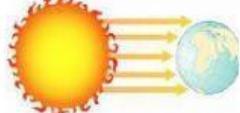
13. How does the picture with the pot over the fire demonstrate conduction, convection, and radiation? \_\_\_\_\_  
\_\_\_\_\_

14. How do insulators help control the flow of heat? \_\_\_\_\_  
\_\_\_\_\_

15. Explain the molecular difference between conductors and insulators. \_\_\_\_\_  
\_\_\_\_\_

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16. **Check for Understanding 2** – Write whether the following examples are conduction, convection, or radiation.



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