

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. _____

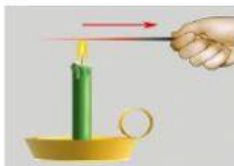
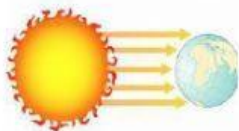
12. What is radiation? _____
13. How does the picture with the pot over the fire demonstrate conduction, convection, and radiation? _____

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.



Scan QR Code to take quiz!

