

## 8<sup>th</sup> grade

### Vocabulary 4

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1. **Conduction**: transfer of thermal energy by direct contact; occurs when energy is transferred by collisions between particles. Transmission of energy: the passage of energy, particularly heat or electricity, through something
2. **Convection**: transfer of thermal energy by the movement of particles from one place to another in a gas or liquid. Circulatory movement in a liquid or gas, resulting from regions of different temperatures and different densities rising and falling in response to gravity
3. **Radiation**: transfer of energy by electromagnetic waves. Energy emitted from a source in the form of rays or waves, e.g. heat, light, or sound
4. **Thermal Energy**: energy that all objects have that increases as the object's temperature increases; the sum of the kinetic and potential energy of the particles in a material.
5. **Kinetic Energy**: energy an object has due to its motion.
6. **Temperature**: a measure of the average value of the kinetic energy of the particles in a material. The degree of heat as an inherent quality of objects expressed as hotness or coldness relative to something else
7. **Heat**: thermal energy transferred from a warmer object to a cooler object. energy perceived as temperature: a form of transferred energy that arises from the random motion of molecules and is felt as temperature, especially as warmth or hotness. Transmitted by conduction, convection, or radiation.
8. **Melting**: change of matter from a solid state to a liquid state.
9. **Freezing**: change of matter from a liquid state to a solid state.
10. **Vaporization**: the process by which a liquid changes into a gas.
11. **Condensation**: the process of changing from a gas to a liquid.



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#### Due Dates for Vocabulary 4

**Wednesday, January 7** - Roundhouse Diagram

**Friday, January 9** - Find a sentence in your textbook with this vocabulary word. Write the sentence, the book, & the page number. Underline the vocabulary word.

**Quiz on Friday over Vocabulary words.**

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