

Unit – Heat**Test Estimation: 2/11/2016****Chapter 6: Thermal Energy and Heat (Pg. 174-203)****Main Ideas:**

- Heat is energy that is transferred by the processes of convection, conduction, and radiation between objects or regions that are at different temperatures.
- Heat flows HOT to COLD

Essential Questions:

- How can heat be transferred from place to place?
- What happens when heat is transferred?

MA State Standards:

- 3.1 Explain how heat energy is transferred by convection, conduction, and radiation.
- 3.2 Explain how heat energy will move from a higher temperature to a lower temperature until equilibrium is reached.
- 3.3 Describe the relationship between average molecular kinetic energy and temperature. Recognize that energy is absorbed when a substance changes from a solid to a liquid to a gas, and that energy is released when a substance changes from a gas to a liquid to a solid. Explain the relationships among evaporation, condensation, cooling, and warming.
- 3.4 Explain the relationships among temperature changes in a substance, the amount of heat transferred, the amount (mass) of the substance, and the specific heat of the substance.

Vocabulary:

Temperature	Conduction	State	Condensation
Fahrenheit Scale	Convection	Change of State	Thermal Expansion
Celsius Scale	Convection	Phase	Heat Engine
Kelvin Scale	Current	Melting	External Combustion Engine
Absolute Zero	Radiation	Freezing	Internal Combustion Engine
Heat	Conductor	Evaporation	Refrigerant
Specific Heat	Insulator	Boiling	

Equations:

$$Q = mc\Delta T$$

$$^{\circ}\text{C} = \frac{5}{9} (^{\circ}\text{F} - 32)$$

$$^{\circ}\text{F} = \frac{9}{5} ^{\circ}\text{C} + 32$$

$$K = ^{\circ}\text{C} + 273$$

Assignments:

Assignment	Date Assigned	Date Due	Completed?	Grade?
6.1 Guided Reading W/s	1/25/2016	1/26/2016		
6.1 Assessment Questions pg 181 #1-5	1/26/2016	1/27/2016		
Temperature Scales and Heat W/s	1/27/2016	1/28/2016		
6.2 Guided Reading W/s	1/28/2016	1/29/2016		
6.2 Assessment Questions pg 187 #1-3	1/29/2016	2/1/2016		
6.3 Guided Reading W/s	2/1/2016	2/2/2016		
6.3 Assessment Questions pg 194 #1-3	2/2/2016	2/3/2016		
Heat Applications 1 W/s	2/3/2016	2/4/2016		
Heat Applications 2 W/s	2/4/2016	2/8/2016		
6.4 Guided Reading W/s	2/8/2016	2/9/2016		
6.4 Assessment Questions pg 199 #1&2 & Ch. 6 Review Questions pg201 #1-5	2/9/2016	2/10/2016		
Ch.6 Review Questions pg201-202 #6-15	2/10/2016	2/11/2016		
Ch.6 Review Questions pg202 #17-25	Extra Credit!	2/11/2016		

Study Guide Heat For Physics

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Gani, Ka Ming Ng**

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