

**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		
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# Study Guide Heat For Physics

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figure 2 simulink phase domain model with the simulink model we can easily simulate noise nonlinearities and the kinds of effects seen in real devices for example the effects of any mismatch between the up current and the down current in the charge pump similarly the simulink model shows us how phase noise is affected by spurs

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phase locked loops a phase locked loop combines a voltage controlled oscillator and a phase comparator as a feedback system to adjust the oscillator frequency or phase to track an applied frequency modulated or phase modulated signal voltage controlled oscillator blocks a voltage controlled oscillator is one part of a phase locked loop

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this example shows how to model a digital phase locked loop using the mixed signal blockset in a digital phase locked loop phase detection is performed by a time to digital converter tdc loop filtering is performed by a digital filter and the oscillator is a digitally controlled oscillator dco this example demonstrates a behavioral

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this example shows how on model a electronic phase locks loop using the mixed signal blockset