

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

$$Q = mc\Delta T$$

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

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

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

Assignments:

Assignment	Date Assigned	Date Due	Completed?	Grade?
6.1 Guided Reading Wks	1/25/2016	1/26/2016		
6.1 Assessment Questions pg 181 #1-5	1/26/2016	1/27/2016		
Temperature Scales and Heat Wks	1/27/2016	1/28/2016		
6.2 Guided Reading Wks	1/28/2016	1/29/2016		
6.2 Assessment Questions pg 187 #1-3	1/29/2016	2/1/2016		
6.3 Guided Reading Wks	2/1/2016	2/2/2016		
6.3 Assessment Questions pg 194 #1-3	2/2/2016	2/3/2016		
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6.4 Assessment Questions pg 199 #1&2 & Ch. 6 Review Questions pg 201 #1-5	2/9/2016	2/10/2016		
Ch. 6 Review Questions pg 201-202 #6-15	2/10/2016	2/11/2016		
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Table of Contents Study Guide Heat For Physics

1. Understanding the eBook Study Guide Heat For Physics
 - The Rise of Digital Reading Study Guide Heat For Physics
 - Advantages of eBooks Over Traditional Books
2. Identifying Study Guide Heat For Physics
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Study Guide Heat For Physics
 - User-Friendly Interface
4. Exploring eBook Recommendations from Study Guide Heat For Physics
 - Personalized Recommendations
 - Study Guide Heat For Physics User Reviews and Ratings
 - Study Guide Heat For Physics and Bestseller Lists
5. Accessing Study Guide Heat For Physics Free and Paid eBooks
 - Study Guide Heat For Physics Public Domain eBooks
 - Study Guide Heat For Physics eBook Subscription Services
 - Study Guide Heat For Physics Budget-Friendly Options
6. Navigating Study Guide Heat For Physics eBook Formats

- ePub, PDF, MOBI, and More
- Study Guide Heat For Physics Compatibility with Devices
- Study Guide Heat For Physics Enhanced eBook Features

7. Enhancing Your Reading Experience

- Adjustable Fonts and Text Sizes of Study Guide Heat For Physics
- Highlighting and Note-Taking Study Guide Heat For Physics
- Interactive Elements Study Guide Heat For Physics

8. Staying Engaged with Study Guide Heat For Physics

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Study Guide Heat For Physics

9. Balancing eBooks and Physical Books Study Guide Heat For Physics

- Benefits of a Digital Library
- Creating a Diverse Reading Collection Study Guide Heat For Physics

10. Overcoming Reading Challenges

- Dealing with Digital Eye Strain
- Minimizing Distractions
- Managing Screen Time

11. Cultivating a Reading Routine Study Guide Heat For Physics

- Setting Reading Goals Study Guide Heat For Physics
- Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Study Guide Heat For Physics

- Fact-Checking eBook Content of Study Guide Heat For Physics
- Distinguishing Credible Sources

13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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this example shows how to use simulink design optimization to tune an all pass filter of a phase lock loop the filter includes a second order low pass filter and a feedthrough gain the feedthrough gain and the second order filter coefficients are tuned to apply a steady state input to the voltage controlled oscillator vco

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