

## Chapter 4 Study Guide: Heat and Temperature

The test will be 12/13 (B day) and 12/14 (A day). You are responsible for the following pages/sections in chapter 4: 105,108,110-111 and all of section 4.3.

Try to complete the following without using your textbook or notes. When you are finished check your answers and fill in or correct any questions you missed with a correcting pen.

Complete the following table.

Vocabulary Word	Definition	Example
Heat		
Thermal Energy (What does it depend on?)		
Temperature (What does it depend on?)		
Thermal Expansion		
Conduction		
Conductor		
Insulator		
Radiation		
Convection		

Why does thermal expansion occur? Explain in terms of kinetic energy.

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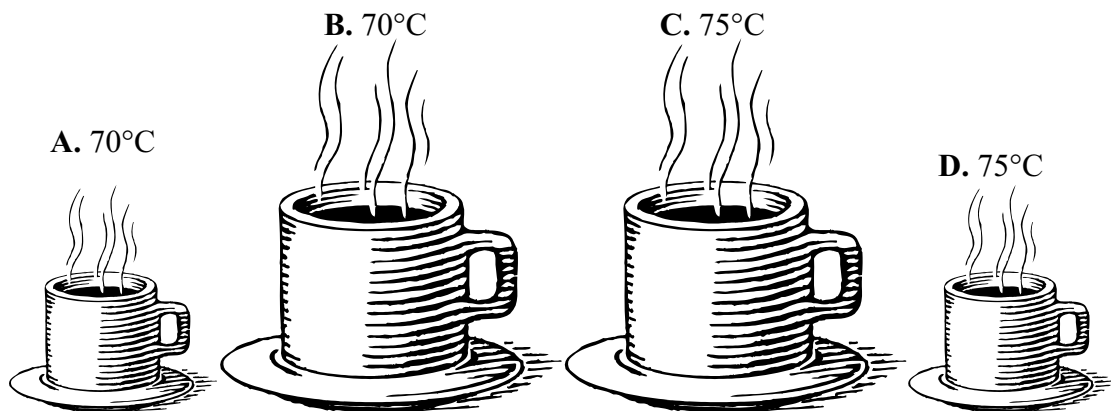
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You need to grab a hot pot from the stove. What kind of insulator could you use? What does the insulator do to the heat energy?

Draw and explain a detailed diagram of convection. Make sure you discuss temperature and density.



Which cup of tea has the most thermal energy? Explain.

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Which tea will cool the quickest? Why?

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