

Heating/Cooling/Phase Change Problems

- A. <http://www.kentchemistry.com/links/Matter/HeatingCurve.htm>
 - B. <http://www.periodictable.com/Properties/A/SpecificHeat.html>
5. Choose any element from the periodic table site and list relevant data here:
- a. Element _____
 - b. Melting Point _____
 - c. Boiling Point _____
 - d. Specific Heat of solid _____
6. Create a 3 step heating/cooling curve problem for this element; then, write out a complete solution for this problem, including a sketch showing the temperature vs. time changes.

Thermodynamic Processes

<http://physics.bgsu.edu/~stoner/p201/engine/sld007.htm>

7. What is a reversible process?
8. What is an irreversible process?

www.physics4kids.com/files/thermo_intro.html

9. What is heat?
10. Why does heat move?
11. What is entropy?

Click next stop on site tour link in the bottom of the screen

12. What type of heat transfer occurs in waves?

13. What type of heat transfer requires objects to come into contact?

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14. List 3 temperature scales

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15. Restate the first and second laws of Thermodynamics.

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16. What do these stand for? S= _____ Q = _____ T = _____

17. When ice melts what happens to its entropy?

Take the following quizzes and place a check mark for every question answered correctly for each.

www.physics4kids.com/extras/quiz_heat_intro/index.html

www.physics4kids.com/extras/quiz_motion_energy/index.html