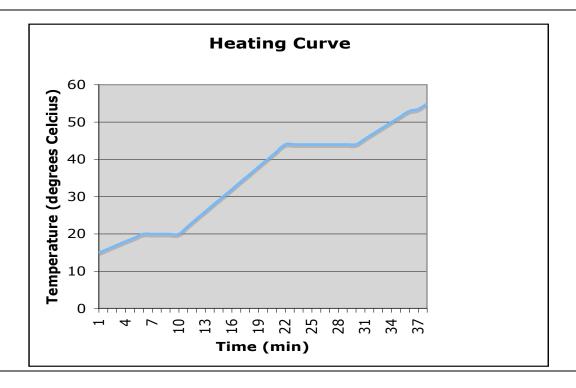
- 1. What is the difference between heat and temperature?
- 2. What is the difference between conduction and convection?
- 3. When you put a thermometer in your mouth how is the heat transferred to the thermometer?



- 4. What is the melting point of this substance?
- 5. What is the boiling point of this substance?
- 6. Label the section of the graph where both liquid and gas are present together.
- 7. Label the section of the graph where only solid is present.
- 8. Label the section of the graph where only liquid is present.
- 9. Label the section of the graph where only gas is present.
- 10. Label the section of the graph where both solid and liquid are present together.
- 11. Identify sections where kinetic energy is changing.
- 12. Label the sections of the graph where PE is changing
- 13. If energy is added at a rate of 5J per min how much energy is required to vaporize a sample?

I	neasure? Give an example of tance with a low specific he	of a substance with a high specific hea eat.
15. Match the following:		
Hot	25°C	
Cold	98.6°C	
Room Temperature	37°C 10°C	
Body Temperature	10 C	
16. Why does the red dyed al	cohol rise up when the tem	perature goes up?
17. Explain the terms endoth	ermic and exothermic and c	draw diagrams for each
	<u> </u>	
	the following terms: sublim , exothermic and endothern	nation, melting, freezing, vaporization,
condensation, deposition	, exothermic and endotherm	inc.
Solid	Liquid	Gas
19. Why does a tile floor feel	colder than a wood floor at	t the same temperature?
17. Willy does a the Hoof feet	Colder than a wood floor at	t the same temperature:

 Draw and describe the difference between intra molecular forces and intermolecular forces.
21. Draw the bohr model for water and show why Oxygen has a negative charge and H a positive charge.
22. What are hydrogen bonds?
23. What kind of heat flow can occur through empty space?
24. Identify all the endothermic phase changes
25. Identify all the exothermic phase changes
26. Does evaporation release or absorb energy?
27. Things with high specific heats heat up than things with low specific heat.
28. How much energy is required to heat 25 g of water from 15°C to 75°C (specific heat of liquid water is 4.18 J/g°C?
29. Convert 45°C to Kelvin

30. Why is it possible to boil water in a paper cup without burning the cup?				
31. Explain how heat moves by conduction				
51. Explain now heat moves by conduction				
32. Give two examples of gradient and the flow that results				
33. A good conductor is always a insulator				
34. List three different ways heat can be transferred from one place to another.				
25.741:1.64141414142424242				
35. Which of these will warm up the fastest? The slowest? Water, wood, metal				
36. Heat energy always travels from an object with a temperature to an object				
with a temperature.				
37. Describe what happens, in terms of thermal energy (AKA: heat energy) when you touch a				
cold piece of ice with your finger.				
38. Describe a plasma				
39. What are the two laws of thermodynamics				
40. What is entropy? Give an example				
40. What is entropy. Give an example				
41. Describe the energy transfer performed by a pendulum as it swings. Calculate the PE at the bottom is there is 400 J at the top and 300 J of KE at the bottom.				
the bottom is there is 400 3 at the top and 500 3 of RE at the bottom.				
2 4				