

NAME: _____

30 November 2015

Physical Science Video Notes
Bill Nye the Science Guy: Heat

1. What are thermometers used for?
2. Heat is _____.
3. Heat can do _____.
4. If you apply heat to solid ice you can turn the ice into _____.
5. Heat can be transferred in _____ different ways.
6. Describe the process of heat conduction.
7. Describe the process of heat convection.
8. Describe the process of heat radiation.
9. Name a kitchen appliance that uses heat conduction. _____
10. Name a kitchen appliance that uses heat convection. _____
11. Name a kitchen appliance that uses heat radiation. _____
12. What was the better heat conductor, the metal knife, the plastic knife or the pop stickle stick?
13. Why does ice swan have more heat energy than the burning match?
14. How does moving air cool the soup?
15. How does the fan cool the heating coils?
16. What is force convection?

17. How is natural convection different from forced convection?
18. In natural convection the warm molecules _____ while the cool molecules _____.
19. How is glider able to stay in the air?
20. How does a thermos flask prevent most heat from escaping or entering the flask?
21. What type of heat can be transferred in and out of a thermos flask?
22. By what process is an open fire place able to heat your living room?
23. By what process does heat escape up the chimney.
24. By what process is the cake baked in the metal container?
25. Describe the processes by which the cake is baked in the glass container.
26. How do coat, jackets, sweaters, scarves and hat keep us warm.
27. Briefly describe how a heat pump works.
28. How do curtains help to maintain the heat inside your house?
29. Describe how the heating system in your house works.
30. What is the units for heat?