QUIZ QUIZ TRADE HEAT REVIEW

1. The movement of energy from a warm object to a cooler object.
2. When energy passes from one object to another when they are touching – occurs with solids
3. When energy travels through a liquid or gas and creates a cycle or current.
4. Energy that does not need a medium to travel through, heat can travel through electromagnetic waves
5. Objects that allow energy to pass through easily
6. A substance that does not allow heat energy to pass through easily
7. When heat is added, molecules speed up and take up more space
8. When heat is taken away, molecules slow down and come together
9. This is another name for heat energy
10. When heat is transferred, it always moves from the \_\_\_\_\_\_\_\_\_\_\_\_\_\_ object to the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ object
11. When two objects are in direct contact what type of heat transfer takes place?
12. When a cycle or current is created in liquid or gad what type of heat transfer takes place?
13. What type of heat transfer takes place when a pot is placed on a warm burner on a stove?
14. The Sun heating the Earth’s surface is an example of what type of heat transfer?
15. What type of energy transfer (2) occurs when boiling a pot of water?
16. Aluminum foil is used to make a solar cooker, is aluminum foil an example of a conductor or insulator?
17. What color absorbs the most energy?
18. What color absorbs the least energy?
19. Which type of heat transfer does not need any particles to travel through?
20. When a spoon is placed in a hot cup of coffee the handle will eventually get hot, this is an example of what type of heat transfer?
21. **T/F** A warm substance is more dense than a cooler substance. Therefore, the warner substance will always sink while the cooler substance will rise.
22. Why is Styrofoam used to keep hot drinks warm?
23. As temperature \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, molecules move faster.
24. On a hot summer’s day, will you feel hotter in a black t-shirt or a white t-shirt?
25. You often find rubber on the end of a metal cooking spoon, why is this?
26. You place an ice cube in hot chocolate to cool it down, how does the energy flow?
27. This is used to protect us from the dangerous effects of electricity flowing through conductors.
28. Air, plastic, rubber, wood are examples of…
29. **T/F** Conductors are materials whose atoms have tightly packed electrons.
30. Copper, aluminum, steel, gold, silver are examples of…
31. A down feather jacket is an example of a conductor or insulator?
32. A rock at a park gets so hot that you can’t sit on it. What type of heat transfer causes the rock to increase in temperature?

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1. The movement of energy from a warm object to a cooler object Heat
2. When energy passes from one object to another when they are touching – occurs with solids Conduction
3. When energy travels through a liquid or gas and creates a cycle or current. Convection
4. Energy that does not need a medium to travel through, heat can travel through electromagnetic waves Radiation
5. Objects that allow energy to pass through easily Conductors
6. A substance that does not allow heat energy to pass through easily Insulators
7. When heat is added, molecules speed up and take up more space Expansion
8. When heat is taken away, molecules slow down and come together Contraction
9. This is another name for heat energy Thermal Energy
10. When heat is transferred, it always moves from the \_\_warmer\_\_ object to the \_\_\_\_Cooler\_\_\_ object
11. When two objects are in direct contact what type of heat transfer takes place? Conduction
12. When a cycle or current is created in liquid or gas what type of heat transfer takes place? Convection
13. What type of heat transfer takes place when a pot is placed on a warm burner on a stove? Conduction
14. The Sun heating the Earth’s surface is an example of what type of heat transfer? Radiation
15. What type of energy transfer (2) occurs when boiling a pot of water? Conduction – Pot on Stove Convection Water in Pot
16. Aluminum foil is used to make a solar cooker, is aluminum foil an example of a conductor or insulator? Conductor
17. What color absorbs the most energy? Black
18. What color absorbs the least energy? White
19. When a spoon is placed in a hot cup of coffee the handle will eventually feel warm. This is an example of what type of heat transfer? Conduction
20. **T/F** A warm substance is more dense than a cooler substance. Therefore, the warmer substance will always sink while the cooler substance will rise. False
21. Why is Styrofoam used to keep hot drinks warm? Styrofoam is an insulator
22. A down feather jacket is an example of a conductor or insulator? Insulator
23. As temperature \_\_\_Increases\_\_\_, molecules move faster.
24. On a hot summer’s day, will you feel hotter in a black t-shirt or a white t-shirt? Black t-shirt
25. You often find rubber on the end of a metal cooking spoon, why is this? Rubber is an insulator
26. You place an ice cube in hot chocolate to cool it down, how does the energy flow? Energy moves from the hot chocolate to the ice cube
27. Near the ceiling of a room the air is warmer. The warm air rises because of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. Convection – change in density
28. Copper, aluminum, steel, gold, silver are examples of… Conductors
29. Air, plastic, rubber, wood are examples of… Insulators
30. A house burns down. On the house across the street, all of the vinyl siding is twisted and warped by the heat. The heat was transferred across the street by \_\_\_\_\_\_\_\_\_\_\_\_\_\_. Radiation
31. This is used to protect us from the dangerous effects of electricity flowing through conductors. Insulators
32. A rock at a park gets so hot that you can’t sit on it. What type of heat transfer causes the rock to increase in temperature? Radiation
33. **T/F** Conductors are materials whose atoms have tightly packed electrons. False