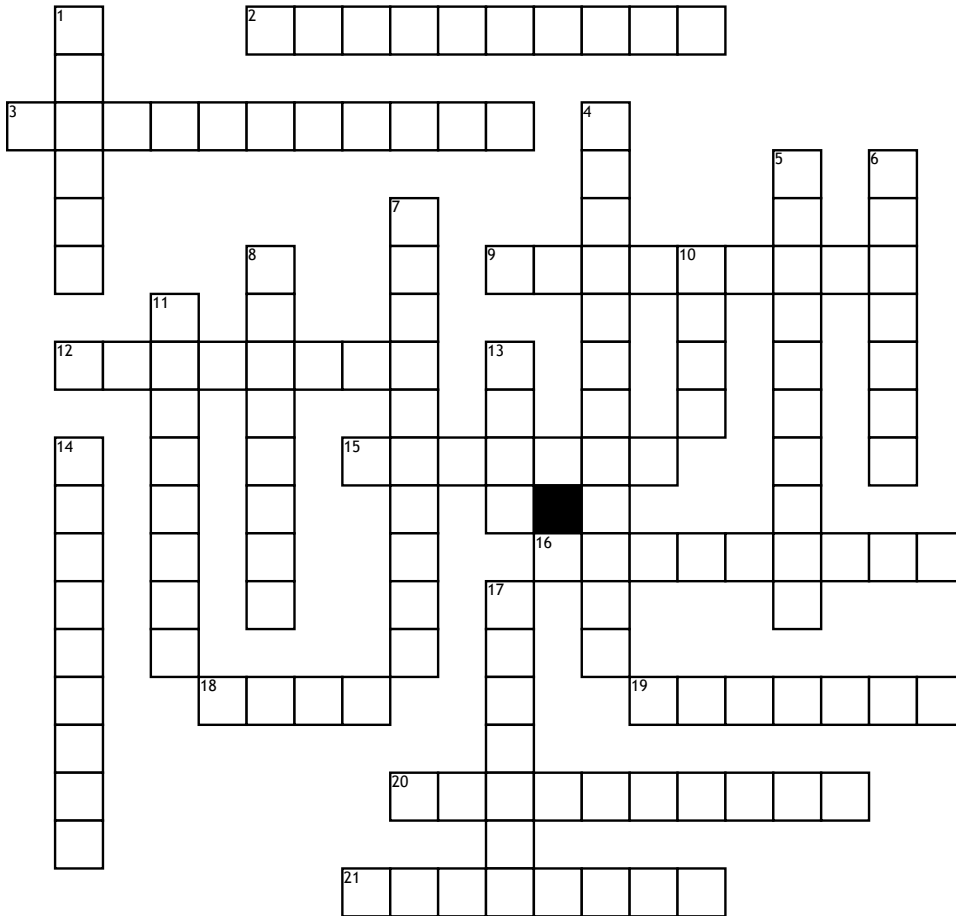


Name: _____ Date: _____

Heat Transfer Crossword



Across

2. Heat transfer occurs when there is a temperature _____ between 2 points.
3. A matt surface has a higher _____ than a shiny surface.
9. A method of heat transfer that doesn't involve particles
12. When a radiator heats air it produces convection _____.
15. The type of energy transferred by free electrons in metals.
16. This is the method of heat conduction in non-metals.
18. One type of surface that maximises thermal radiation.

19. In thermal radiation if the temperature of the doubles, then the heat energy transmitted per second increases by _____ times.

20. Loft insulation reduces heat losses by _____ by trapping pockets of air.

21. What type of winds are caused by the land heating up faster than the sea?

Down

1. All _____ undergo heat transfer by convection.

4. What is "k" in the heat conduction equation? Thermal _____

5. a black surface has a higher _____ than a white surface.

6. When a liquid is heated which of its properties decreases.

7. The colour and nature of the surface effects its _____.

8. Double glazing reduces heat conduction by reducing the _____ of the gas between the 2 panes.

10. More heat energy will be conducted if the _____ of the heat conductor is larger.

11. The larger the temperature difference between inside and outside the higher the heat _____.

13. The type of electrons found in metals.

14. When a liquid is heated its molecules _____.

17. In heat convection, when a fluid is heated it _____.