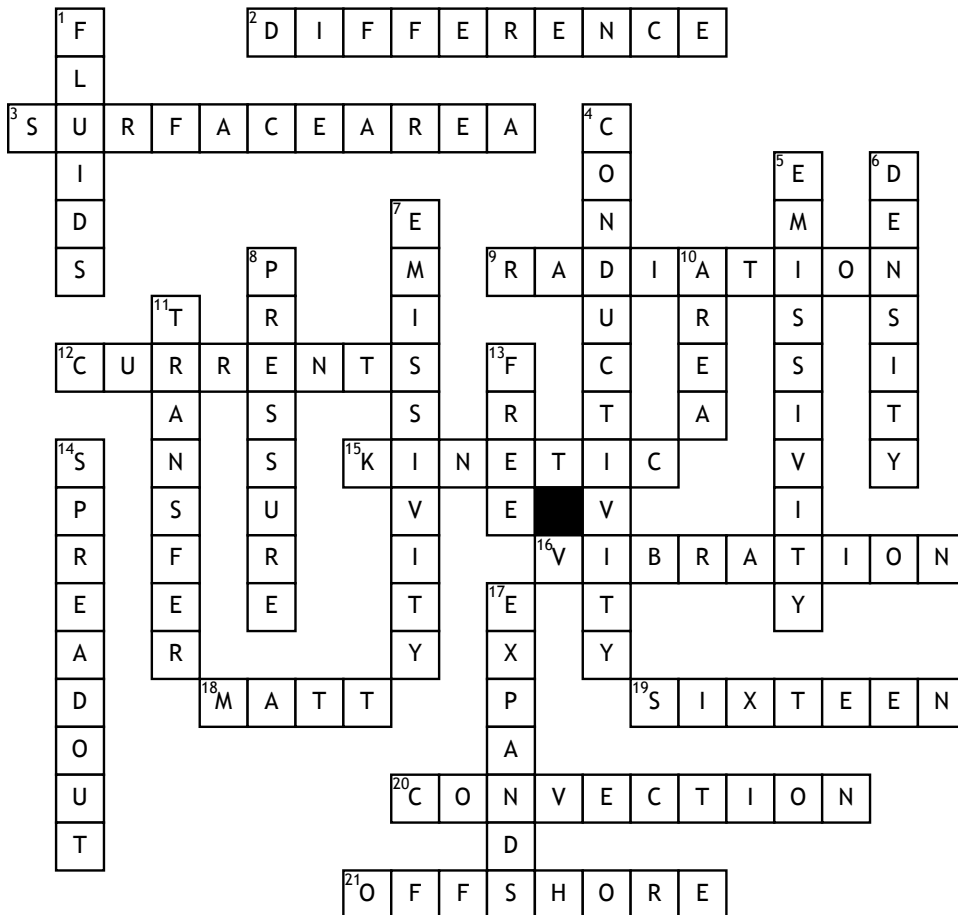


Heat Transfer Crossword



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 _____.