Year 8 Heat Transfer Learning Journey

Lesson Remember this!

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| Heat is a type of energy which can change the temperature of a substance |
| In a solid, particles are in a fixed arrangement and can only vibrate |
| In liquids and gases particles are able to move |
| Conduction and convection requires particles |
| Heat can travel by conduction, convection and radiation |
| When energy is transferred some is often wasted as heat |
| Insulation can reduce heat transfer |
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| 1- explain the difference between heat and temperature |
|  2- describe changes of state as energy transfer |
| 3- explain conduction in terms of energy transfer and particles |
| 4- explain convection in terms of energy transfer and particles |
| 5- explain heat transfer by radiation |
| 6- identify areas of energy loss or wastage in a home and identify solutions |
| 7- identify energy wastage in energy transfers and how to improve efficiency |
| 8- investigate the effectiveness of cotton wool, newspaper and bubble wrap as insulators. |
| 9- evaluate the effectiveness of different forms of insulation by analysing experimental results |

