

**CONDUCTION**

**CONVECTION**

**RADIATION**

For the following three methods of **heat transfer** briefly **explain** how they work, through what **materials/mediums** and draw **a diagram** to help your explanation…

What is **Payback**?

Explain why trapped air is a good insulating material:

Write out the **equation** and **units** to calculate **Efficiency**:

Energy is written in ……………………..(…..)

Heat always transfers from ………. to …………

Draw an energy transfer diagram for a torch. Shade in the useful output energy.

Draw a **Sankey diagram** for a light bulb that has an input of **50J electric** energy and an output of **15J light** and the **remainder heat** energy.

Complete the following table:

|  |  |  |  |
| --- | --- | --- | --- |
| Energy Resource | Examples | Advantages | Disadvantages |
| Renewable |  |  |  |
| Non-renewable |  |  |  |

**Energy**