

Year 5 Conductors and Insulators.

Thermal Conductors



Thermal Insulators



Thermal Conductors

Heat can travel easily through thermal conductors.

Metals are good thermal conductors, as they allow heat to move through them.

Thermal conductors are used to make items that need heat to travel through them, like a pan or a radiator.



Thermal Insulators

Thermal insulators do not let heat travel through them easily.

Some fabrics, wood and plastics are good thermal insulators.

Thermal insulators can keep heat out or in. For example, a vacuum flask stops heat from the air travelling through to the food or drink inside, keeping it cool. A coat stops the heat from your body travelling through to the air outside, keeping you warm.

Insulated drinks cups and bottles keep drinks cooler / warmer for longer.

Insulated lunch boxes are lined with a material that keeps the heat from the outside from getting in and warming up the food.



Conduction of heat is when heat travels from an object that is hot, to an object that is

cooler.



Sometimes, we do not want heat to escape! We do not want it to travel to another object. Objects that keep heat in are insulators. Warm winter coats are made out of good insulating materials.

