

Year 5 Science homework – Keeping things cool

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.

Your Task –

- The Brilliant Bags Company want to make a new lunch box for children to bring their packed lunches to school in.
- Food will be stored in the lunch box for quite a long time – probably all morning.
- They want to make sure the lunch box keeps the children's lunches cool and fresh, so they need to think about the best material to use to make the inner lining of the lunch box.

