

Thermal Insulation

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Which material makes the best thermal insulator?

Use your research skills online or use a dictionary to define thermal insulation.

Equipment required:

- Ice cubes x 4 (of a similar size)
- A flannel
- Tin foil
- A sheet of newspaper
- A sheet of kitchen roll



Prediction

Think about the materials listed above, when an ice cube is wrapped in each of these, which ice cube will take the longest to melt?

Fair Test:

- Ensure you wrap each material around the ice cube the same number of times.
- Leave your ice cubes in the area to melt.

Recording your results:

Material	Tin foil	Kitchen Roll	Newspaper	Flannel
Time taken to melt (Minutes)				

Hypothermia

Hypothermia is a medical emergency which can threaten a person's life.

It happens when a person's body loses heat faster than it can produce heat.

This leads to a dangerously low body temperature.

Our normal body temperature is around 98.6 F (37 C)

Hypothermia happens when the body temperature falls below 95 F (35 C).

What happens when someone suffers from hypothermia

They:

- shiver
- slur their speech or mumble
- breathe more slowly and take, shallow breaths.
- have a weak pulse
- become clumsy and lack coordination
- become drowsy
- become confused
- lose consciousness