

Heat Transfer

7th Grade

Three ways heat moves, and which materials help or block each one.

Heat always flows from hotter to colder. Only the route differs.

Method	How	Example
Conduction	particle to particle, by touch	a spoon in hot soup
Convection	hot fluid rises, cool sinks	a radiator warming a room
Radiation	infrared waves, no medium needed	the Sun warming your face

A vacuum flask blocks all three: vacuum stops conduction and convection, the silver lining reflects radiation.