

* Heat always travels from warmer substances to cooler ones

opposite
→ Insulators: substances that do not transfer heat well
Conductor: a substance that does transfer heat well

Heat Transfer: Convection, Conduction, Radiation

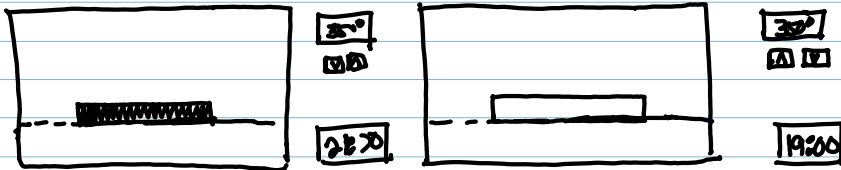
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Conduction: transfer of heat energy from one object to another by DIRECT CONTACT

[transfer of heat energy from atom to atom within a substance]

Convection: only occurs in fluids (gases or liquids)
- the transfer of heat energy in a gas or liquid by a movement of currents

radiation - heat through space



convection - NO
conduction - YES
radiation - YES

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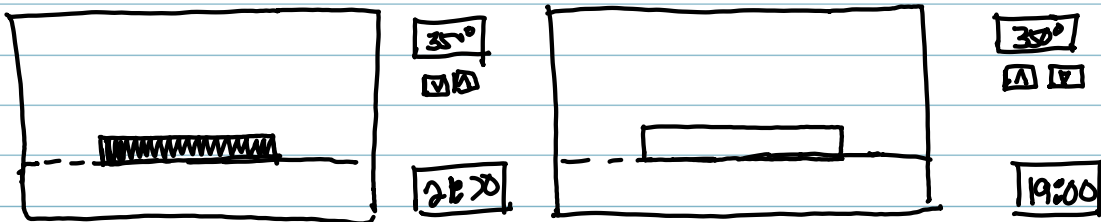
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dark metal
pan

glass
pan

convection - NO
conduction - YES
radiation - YES