

# THE WATER CYCLE: PHASE CHANGES

## PROCESS A

### Evaporation

The process by which a liquid turns into a gas or vapor.

- Energy is absorbed (Heat added)
- Molecules move faster
- Occurs at the surface of the liquid
- Leads to a cooling effect

## PROCESS B

### Condensation

The process by which a gas or vapor turns into a liquid.

- Energy is released (Heat removed)
- Molecules move slower
- Requires "Cloud Seeds" (CCN) in air
- Leads to a warming effect

Feature	Evaporation	Condensation
State Change	Liquid to Gas	Gas to Liquid
Thermal Energy	Endothermic (Gains heat)	Exothermic (Loses heat)

**Feature**

**Evaporation**

**Condensation**

**Real World Example**

Puddle drying in the sun

Dew on morning grass

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