



Physical Geography

Water

- Outline
 - Water Cycle
 - Water Balance Concept
 - Assign CH6



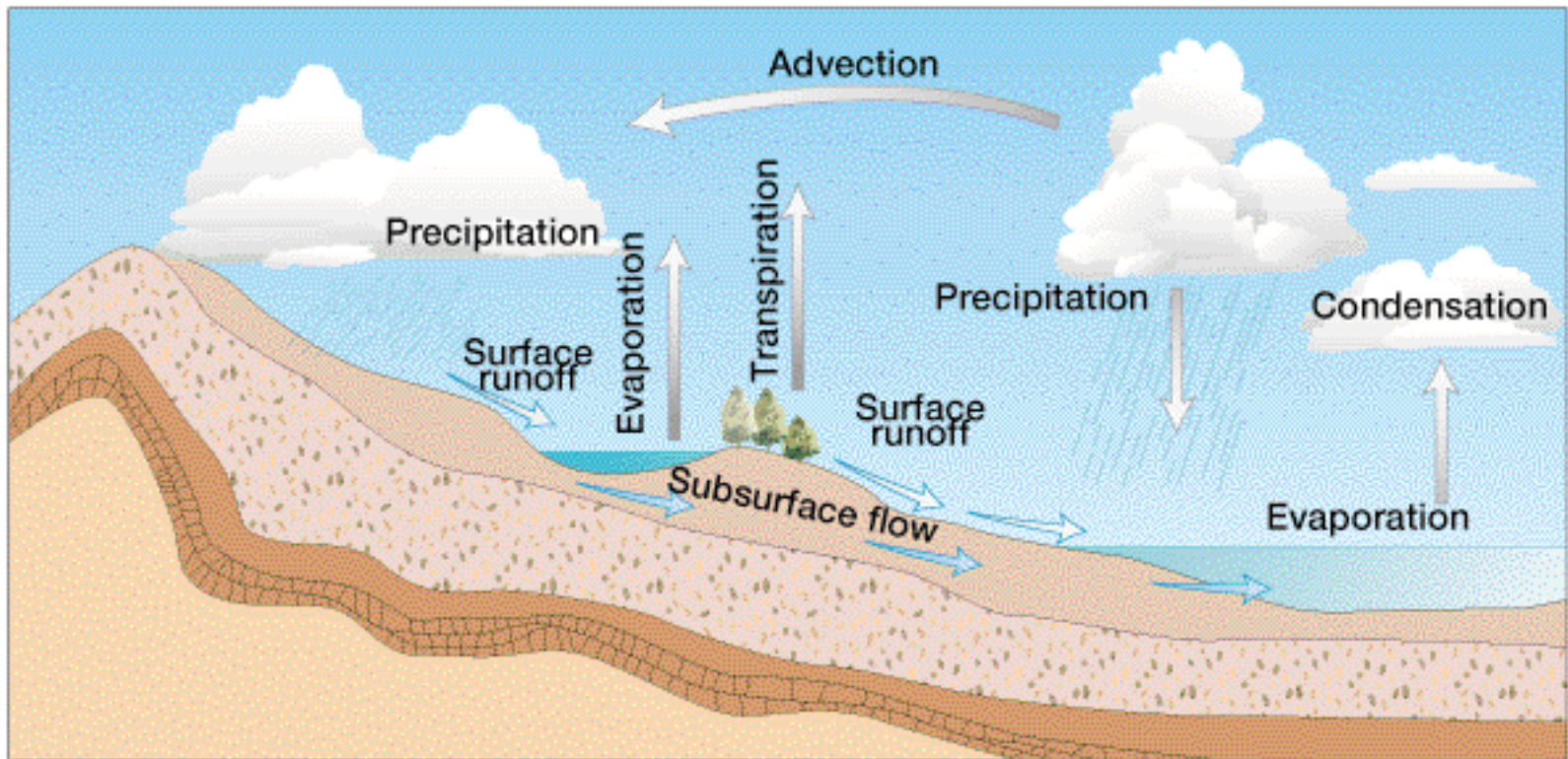
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Hydrological Cycle

- Water, Ice, & Vapor ‘flow’ around the globe as part of a wider water system
- The cycle involves the **circulation** & **transformation** of water

Physical Geography

Hydrological Cycle





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Cycle

- **Surface-Air Movement**: Evaporation & Transpiration
- **Air-Surface Movement**: Precipitation
- **Sub-Surface & Surface Movement**: percolation, run-off, infiltration
- **Residence**: As a closed system, the hydrological cycle is premised upon the constant movement (circulation) of water. However, a single molecule's residence in a single space varies greatly.



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Water Balance

- Water Balance concept addresses specific aspects of the water cycle
- A water-balance equation can be used to calculate the amount of precipitation that would be need to maintain local hydrological conditions
 - The equation measures **precipitation, potential evapo-transpiration (POTET), surplus, and moisture storage**

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Physical Geography

Global Water Use

- 69% Agriculture, 23% Industrial, 8% Domestic