

# Biology Modules: B4, B5 and B6

## B4 - Homeostasis

### The Basics of Homeostasis

- Homeostasis - Maintaining a constant internal environment
  - Keeping everything functioning properly.
  - Water control - Balance between water you gain (food, drink and respiration) and the water you lose (sweat, normal excretion and breathing out). Managing the body's temperature - Different it's cold or warm outside your body keeps a pretty average temperature.
- Exercise and illness can affect homeostasis
  - Exercise Exercise
    - Temperature - When you exercise you generate heat, so your body temperature increases.
    - Water control - You sweat and breathe out more water so regulate your body's.
    - Salt levels - Sweat contains salt, so when you sweat it decreases.
  - Exercise Fatigue
    - Heat tolerance - Some are naturally fitter.
    - Cold tolerance - Can some your body temperature to decrease rapidly.
- Mountain climbing
  - Temperature sensitive and cold climate. High altitudes also affect blood oxygen levels so they're better constituting to altitude sickness.
- A nice thing
  - Temperature drops in cold water, your body reacts more quickly to produce heat your blood and then more important your can breathe oxygen levels.

### Negative Feedback

- Negative feedback mechanisms change
  - Effects will keep producing response and everything is back to the norm.
- Some physical systems work like body control systems
  - Like the thermostat, the heat switch off, the cold switches on.



### Diffusion

- Diffusion is the passive overall movement of particles from a region of higher concentration to a region of lower concentration.
  - The bigger the difference in concentration, the faster the diffusion rate.
- Some chemicals can move in and out of cells by diffusion
  - Cells produce CO<sub>2</sub>, which means there's a difference of it in cells than the blood. It diffuses into the blood to be carried away.

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