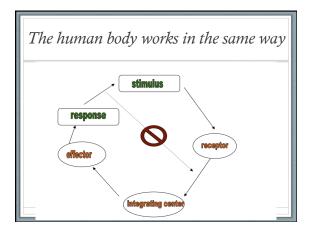


What would you consider normal or acceptable range for your grades? What happens when you fall outside of (below) that range?

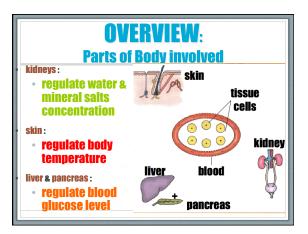
• Brainstorm:

• You have to do work and change their behavior in order to get back into that acceptable range.

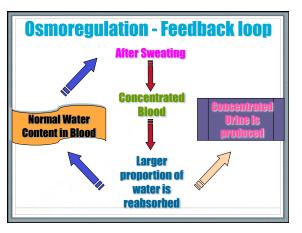


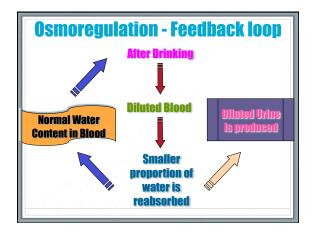
"What things/processes in the human body need to be kept within a particular range?"

- Body Temperature
- Blood pressure
- Blood pH
- O₂ and CO₂ concentration
- Osmoregulation-Water balance
- Blood glucose





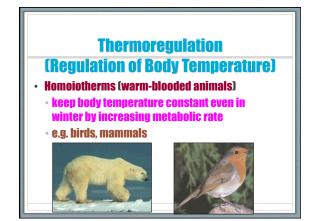


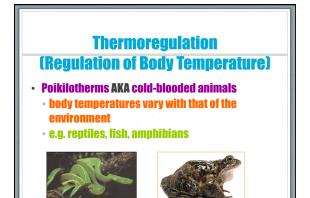




Thermoregulation (Body Temperature)

- Regulate body temperature
- Organ involved: Skin





Mechanisms for Thermoregulation • Insulation

- Fur
- Hair
- Feathers
- Fat Blubber
- Evaporative cooling
- sweating, panting, bathing Shivering
- Nonshivering thermogenesis & brown fat
- Circulation adaptations
 - Countercurrent exchange
- Vasodilatation (cooling)
- Vasoconstriction (heat conservation)
- Behavioral responses

Glucoregulation (Sugar) Regulate body sugar Organ involved: Liver & Pancreas

