

# PYSC1002 NOTES

Semester 2 2019 USYD

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# Learning & Motivation

## Learning & Motivation 1: Intro & Basic Biological Processes

- Learning = enduring change within an organism brought about by experience → change in behaviour
- Learning ≠ performance
  - Performance depends on learning, opportunity, motivation, sensory & motor capabilities
- Learning is not reflexes (innate), instincts (genetics), maturation (changes in behaviour brought about by aging) or fatigue (changes are not stable)
- Reflexes:
  - Automatic, usually very fast
  - E.g. air puff → eye blink, food → salivation (helps w/ digestion), movement → eye turn, knee tap → knee jerk (patellar reflex), touch baby's cheek → head turn (rooting reflex), pain → withdrawal
  - Eliciting stimulus → reflex (corresponding response)
  - Generally helpful (e.g. rooting reflex helps baby find milk)
  - Arm withdrawal involves the fewest neurons out of any type of behaviour (sometimes only 3)
  - Reflex arc:
    - Sensory (afferent) nerves detect stimuli
    - Motor (efferent) nerves stimulate muscles
    - Passing threshold → efferent nerves
    - Reduction in efferent stimulation → response strength
- Instinct:
  - Behavioural sequences (reflex is just 1 thing)
  - Made up of mostly genetically determined units → typical of all members of a species
  - E.g. mating rituals (easier to see in animals than humans)
- Maturation:
  - Developmental; results from changes in the body's composition
  - E.g. 'learning' to walk (not actually technically learning)
    - Baby has reflex to stick out its legs and later legs grow to be able to support the baby walking