

Learning

"Changes in behaviour as a result of experience"

Conditioning - Reaction to a stimulus modified by learning

Associative Learning - Learning an association between 2 stimuli or behaviour + stimulus

Classical Conditioning

Passive Associative Learning

Learning associations between stimulus and behavioural responses

Food

Unconditioned Stimulus - that provokes unconditioned response

Salivating

Unconditioned Response - to an unconditioned stimulus

Bell

Neutral Stimulus

(Response comes after critical event)
(acquisition occurring)

Bell

Conditioned Stimulus - repetitions of NS and UCS together, provokes CR
(before) (after)

Salivating

Conditioned Response - Learned response to CS (acquisition successful)

Acquisition - Initial stage of conditioning

Extinction - No more response to CR

Spontaneous Recovery - Return of CR despite extinction after a rest period.

Means memory is still there

Examples - Ivan Pavlov's Dog

- John Watson, Little Albert

- John Garcia Effect, Taste Aversion

UCS - radiation

Acquisition occurred after 1 trial

UCR - vomiting/nausea

Persisted even after a long delay

NS - sweetened water

Specific to food/drink

CS - sweetened water

CR - vomiting/nausea

Conditioned Taste Aversion is adaptive survival mechanism

Acquisition - Associates response with outcome/consequence
Response comes before critical event

Operant Conditioning

Active Association Learning

Learning the association between behavioural responses and outcome

e.g. Child : associates behaviour with consequences

Response - being polite

Consequence - getting cookie

Behaviour strengthened

Edward Thorndike's Law of Effect

Any behaviour followed by (un)pleasant consequences is likely
(un)likely to be repeated

Positive - adding a stimulus

Negative - removing a stimulus

Reinforcement - Increases behaviour

Punishment - Decreases behaviour

Positive punishment - Spanking child so doesn't steal money
positive punishment

Negative punishment - No TV time " "
negative

Positive reinforcement - Jumping in hot shower
positive

Negative reinforcement - Taking away the cold
negative

Completing a task outside in winter

Continuous

~~Continuous~~ reinforcement - Acquires desired behaviour very quickly

Partial reinforcement - Acquires desired behaviour slower, but persists longer without reward

Fixed Interval - Rewards every hour

Fixed Ratio - Rewards for a selected behaviour

Variable Interval - Rewards randomly as time passes

Variable Ratio - Rewards random behaviour

Observational Learning

Learning by watching ^{a model} somebody
e.g. Sharing, washing laundry

Albert Bandura - 4 stages to observational learning

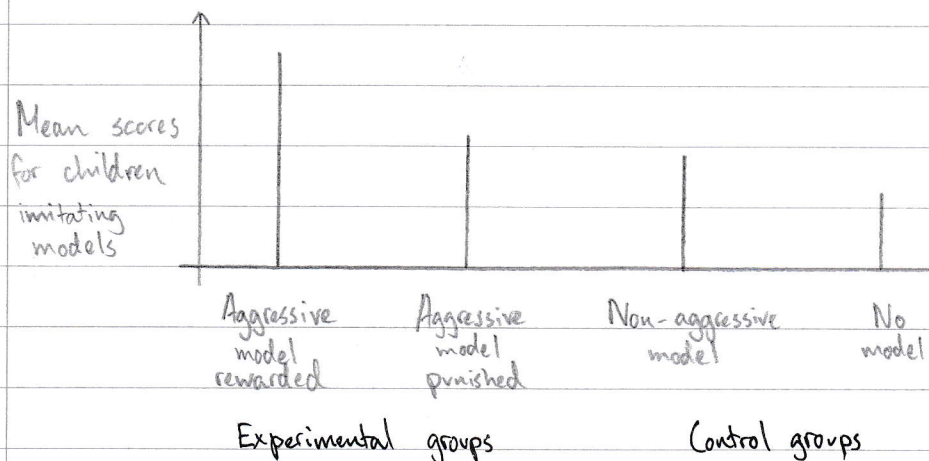
- 1) Attention - paying attention to model's behaviour and its consequences
- 2) Retention - remembering what you saw
- 3) Reproduction - access mental representation and change into behaviour
- 4) Motivation - encounter situation where response is rewarded
washing laundry clean clothes

Bobo Doll Studies

Study 1 - live models playing roughly with inflatable clown

Study 2 - filmed models " " "

Study 3 - study 2 with changed consequences model received (reinforcement/punishment)



Desensitization - muted reaction to real violence

Numbing effect - individuals who played violent games were less likely to help "injured victim"