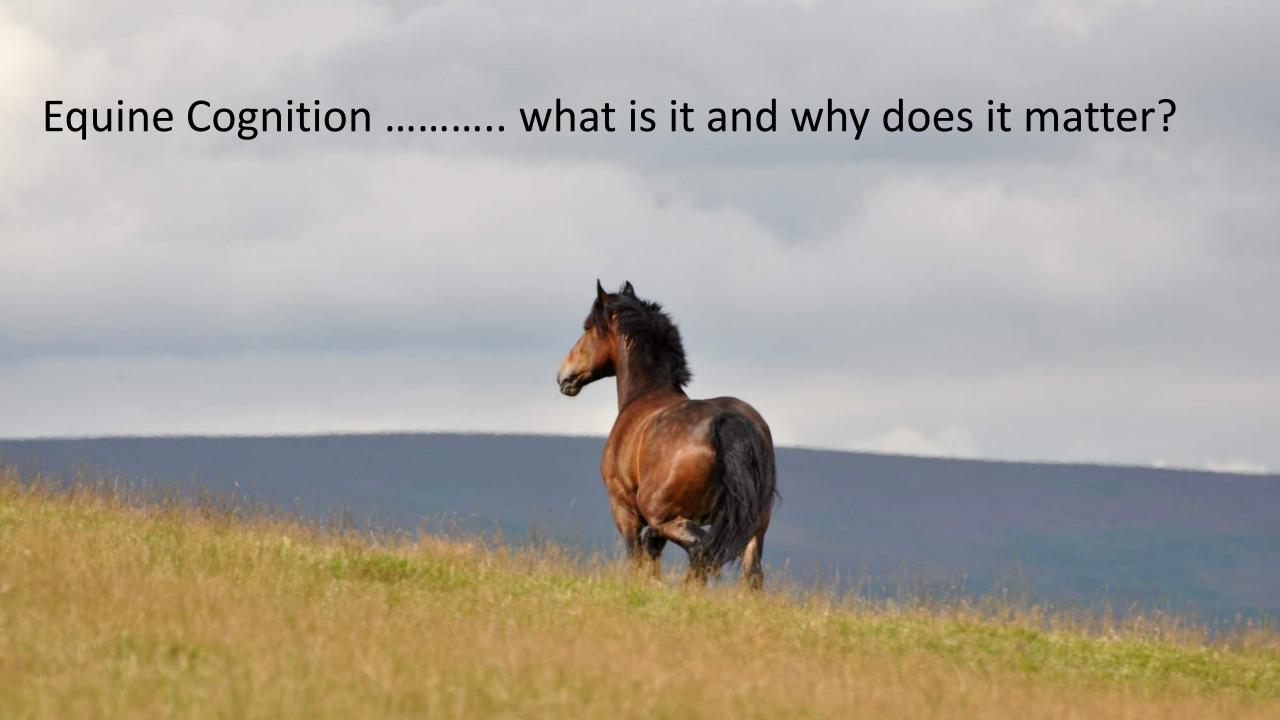


Overview of Presentation

- Before we look at training horses we need to understand how they learn
- Brief overview of equine cognition and why it is important
- Key elements of leading the Therapeutic Riding Horse
- Integrate video footage for each of the above







Why equine cognition matters....

Horses differ from humans in how they learn because of the difference between the human and the equine brain

Prefrontal Cortex – which enables planning complex cognitive behavior, personality expression, decision making, and moderating social behaviour

Well developed in humans but not horses

Horses 3 learning processes



1. Cognition (processing information about the world)

Over- or underestimating horses' intelligence has negative welfare implications

Horses learning processes

Cognition (process information about the world)



Horses learning processes

Cognition (process information about the world)

2 . Ethology (e.g. flight response)



Horses learning processes



Cognition (mental ability)

Ethology (e.g. flight response)

3 .Psychology (learned behaviour)

Habituation

Desentisation to stimuli

Habituation - Desentisation to stimuli



How horses learn i.e their psychology depends on

Habituation

• Desentisation to stimuli

Operant Conditioning

- Rewards and punishments
- 4 subsets

•Positive reinforcement:

• <u>A pleasant stimulus is added to the horses environment when a behavior occurs, resulting in an increased chance of the animal repeating the behavior......e.g. clicker training</u>

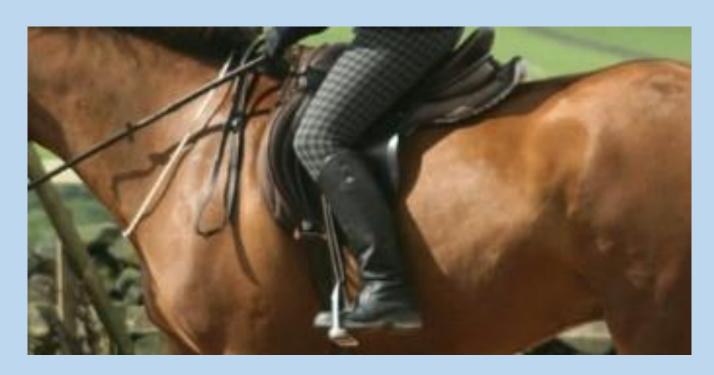


•Positive reinforcement:

• A pleasant stimulus is added to the horses environment when a behavior occurs, resulting in an increased chance of the animal repeating the behavior.....e.g. clicker training

•Negative reinforcement:

• An unpleasant stimulus is removed from the horses environment when a behavior occurs, resulting in an increased chance of the animal repeating the behavior.



Negative reinforcement

Pressure ...horses moves to avoid pressure

•Positive reinforcement:

• A pleasant stimulus is added to the horses environment when a behavior occurs, resulting in an increased chance of the animal repeating the behavior.....e.g. clicker training

•Negative reinforcement:

• An unpleasant stimulus is removed from the environ horses ment when a behavior occurs, resulting in an increased chance of the animal repeating the behavior.

•Positive punishment:

• An unpleasant stimulus is added to the horses environment when a behavior occurs, resulting in a decreased chance of the animal repeating the behavior.



Positive punishment

•Positive reinforcement:

• A pleasant stimulus is added to the horses environment when a behavior occurs, resulting in an increased chance of the animal repeating the behavior.....e.g. clicker training

•Negative reinforcement:

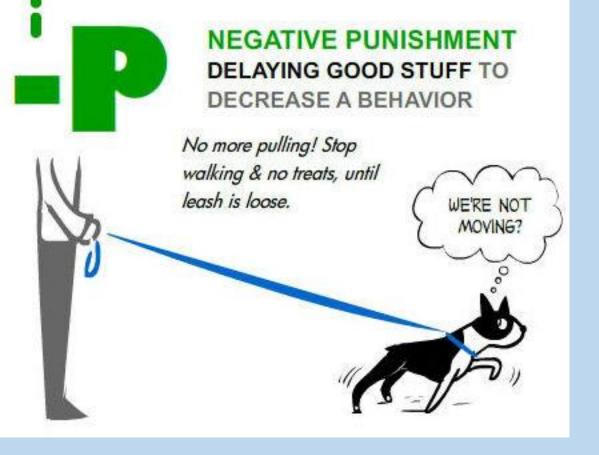
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•Positive punishment:

• An unpleasant stimulus is added to the horses environment when a behavior occurs, resulting in a decreased chance of the animal repeating the behavior.

•Negative punishment:

• A pleasant stimulus is removed from the horses environment when a behavior occurs, resulting in a decreased chance of the animal repeating the behavior.



Taking the car keys away from a teenager when they are "grounded" due to misbehavior is negative punishment.

How horses learn i.e their psychology depends on

Habituation

Desentisation to stimuli

Operant Conditioning

- 4 subsetsTrial and error
- Reward and punishment

Classical conditioning

Learning through association



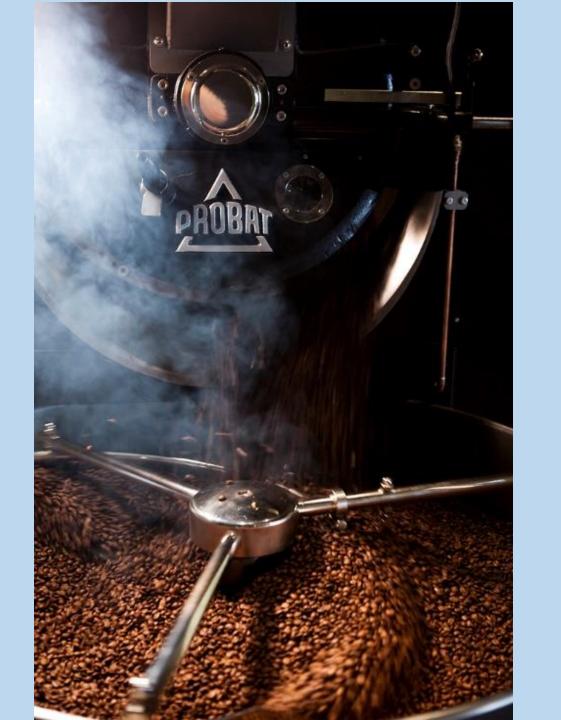
<u>Classical Conditioning</u> is your horse learning a simple association between two events.

They hear the feed bucket, they know food is coming.

Bad experience of the farrier they anticipate a negative experience







Most important factors for horses learning

- Release of pressure immediately when the horse responds (3 seconds)
- Using signals that the horse can differentiate
- Train and initiate responses one at a time
- Consistency and repetition
- Only one response per signal
- Eliminate fear during training
- Train persistence of responses
- Check for relaxation



As Trainers we need to:

React quickly when applying a signal or rewarding behaviour (3 seconds)

Decide what you want to achieve in each session and work within your capabilities (planning)

Avoid being fearful and nervous because......anxiety causes muscles to tense and reduces focus on the horse

In summary.....

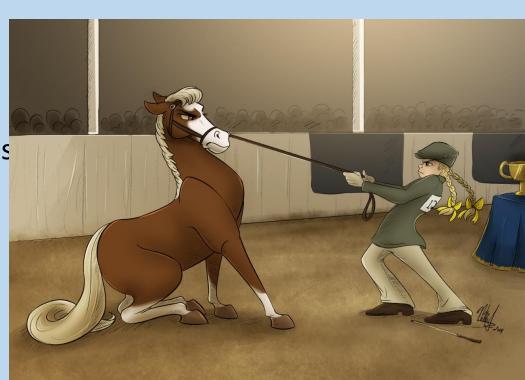
Understanding equine cognition is fundamental to training the therapeutic riding horse so that s/he leads in such a way to allow maximum value for the rider



Typical problems associated with leading

- Horse will not walk forward when asked
- Horse will not stop when askedcan circle or keep going
- Horse can drift left or right
- Horse will not stay still

- Problems can be due to
 - Physical pain (tack riders weight back problems
 - Confusion
 - Uneducated leaders
 - Inadequate training for the horse
 - Not realising what the problem is



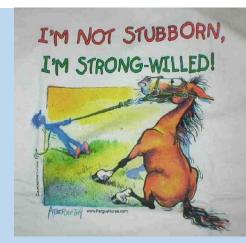
Problem behaviours result in:

The state of the s

Describing the horse as

- Stubborn
- Cheeky
- Uncoperative
- Naughty
- Etc.,







The Importance of Leading

- Three Therapeutic Riding Coaches (1 full time, 2 part time)
- 120 Therapeutic Riding Riders / Clients
- Each Coach has a designated leader
- 6 Therapeutic Riding Leaders



Essentials for leading

- 1. Position of the leader
- 2. Contact with the leadrope
- 3. Light aid
- 4. Maintaining straightness at all times
- 5. Increase or decrease speed
- 6. One cue at a time
- 7. Turning left and turning right in line with the footfalls of the horse









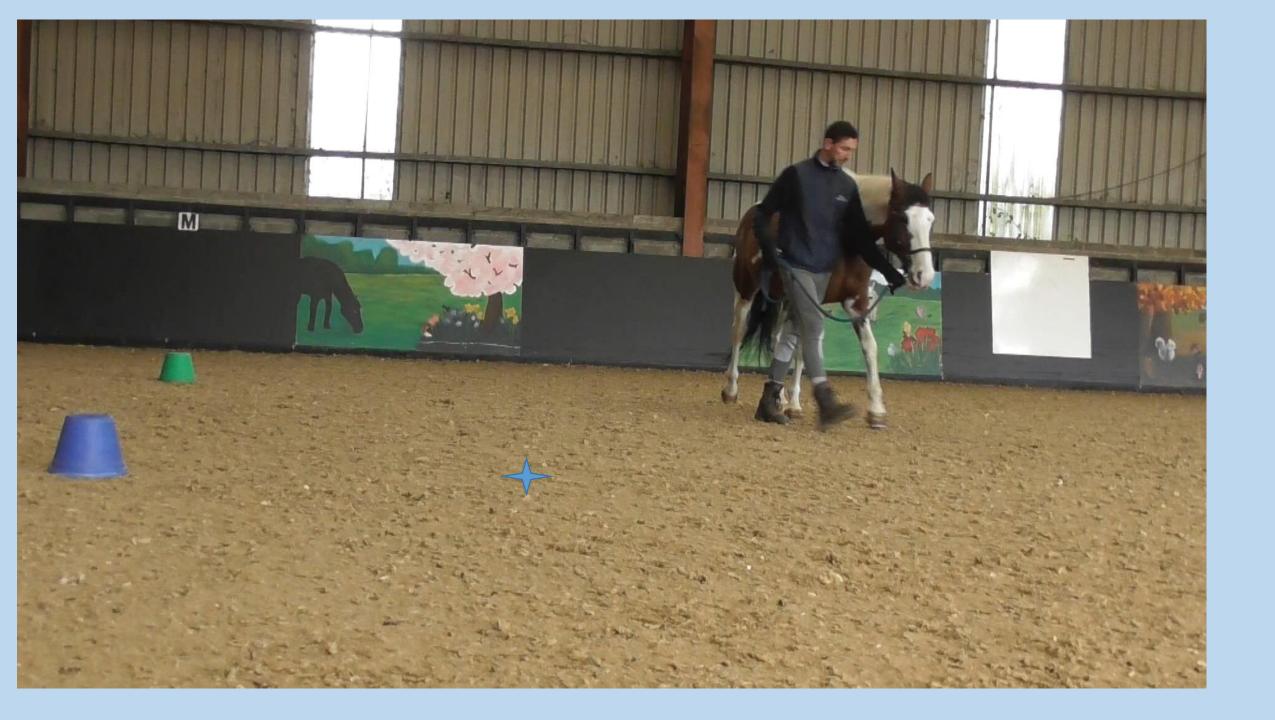




Essentials for leading: one cue at a time horses can only respond to one cue at a time







In summary.....essentials for leading

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