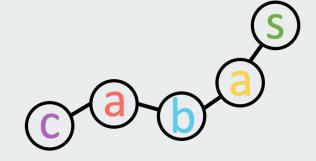
# Reinforcement, Punishment, & Extinction





This training program is based on the RBT Task List (2nd ed.) and is designed to meet the 40-hour training requirement for RBT certification. The program is offered independent of the BACB

#### References

- Cooper, J. O., Heron, T. E., & Heward, W. L. (2020). *Applied Behavior Analysis* (3<sup>rd</sup> ed.). Hoboken, NJ: Pearson.
- Behavior Analyst Supervisor (BAS) RBT Study Guide→ <a href="https://behavioranalystsupervisor.com/">https://behavioranalystsupervisor.com/</a>
- RBT Task List (2nd Edition) → <a href="https://www.bacb.com/rbt/">https://www.bacb.com/rbt/</a>

#### **In This Presentation**

**C-3**→ Use contingencies of reinforcement

## Today we are discussing:

Conditioned versus unconditioned reinforcement and punishment

Positive Reinforcement

Negative Reinforcement

Positive Punishment

Negative Punishment

#### **Conditioned versus Unconditioned**

#### Reinforcement

- Unconditioned (i.e., primary)→ things that are needed to survive and need NO learning history
  - o Food, water, shelter, sleep, sexual stimulation
- Conditioned (i.e., secondary) → strengthens behaviors through its association with primary reinforcers, learned
  - Money

#### **Conditioned versus Unconditioned**

#### **Punishment**

- Unconditioned→ unlearned, often reflexive
  - Pain, excessive cold or heat, too much light or lack of light, loud sounds
- Conditioned→ neutral things that get paired with aversive consequences and avoided in the future
  - Dogs if you've been bitten

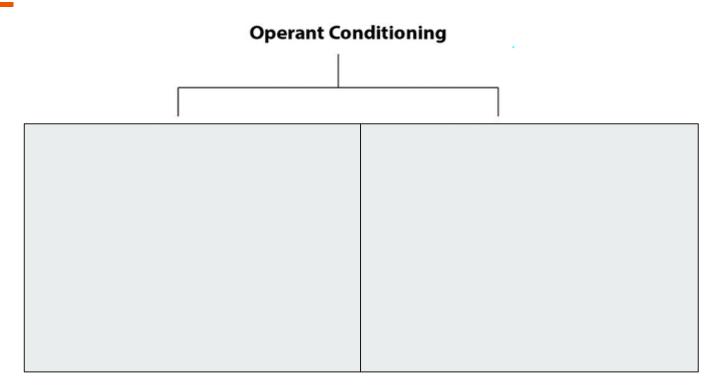
#### Let's clarify our terms:

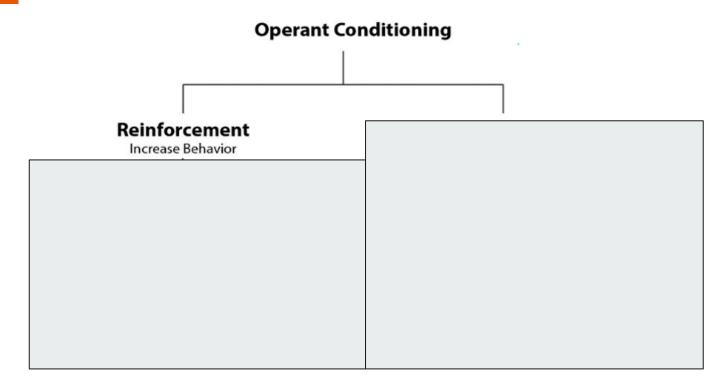
Positive→ PRESENCE of a stimulus or ADD

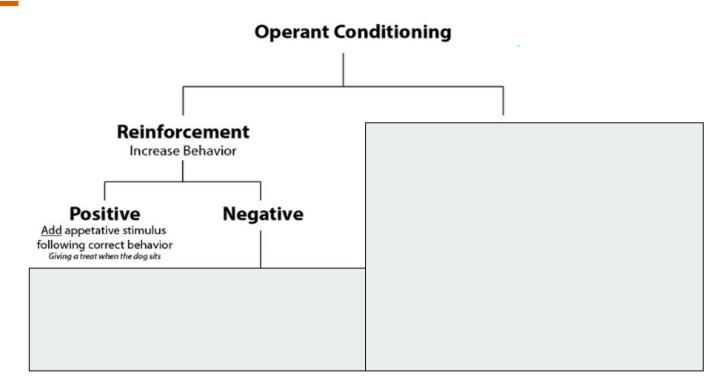
Negative → ABSENCE or REMOVAL of a stimulus

Reinforcement → INCREASE in the future frequency of a behavior

Punishment→ DECREASE the future frequency of a behavior

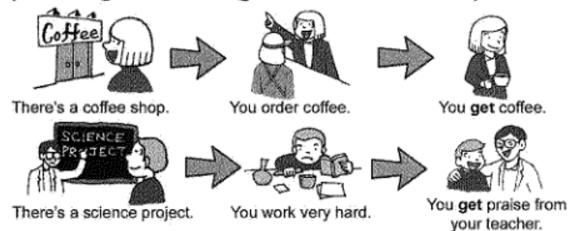


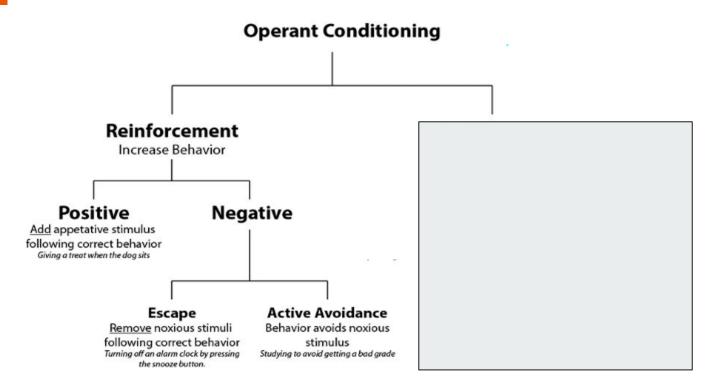




#### Positive Reinforcement (SR+)

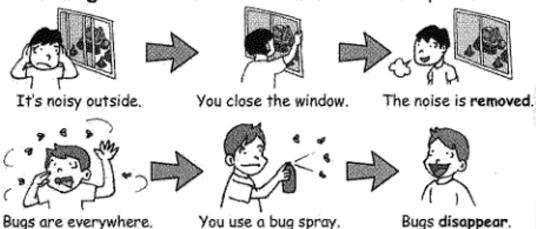
Positive reinforcement (SR+) is a procedure that increases the occurrence of a target behavior by providing a motivating stimulus as a consequence.

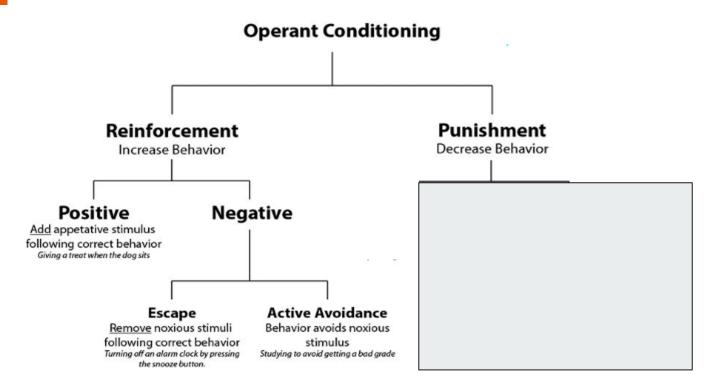


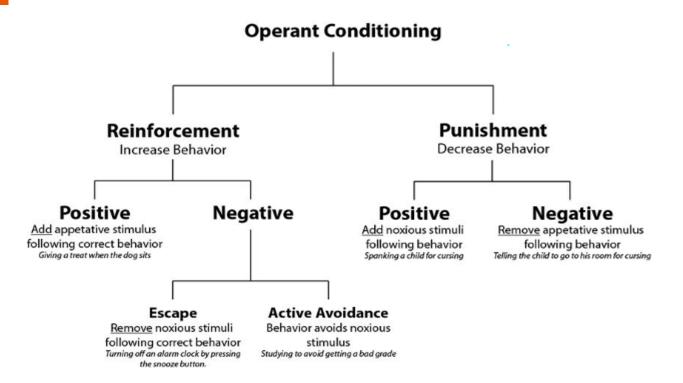


#### Negative Reinforcement (SR-)

Negative reinforcement (S<sup>R</sup>-) is a procedure that increases the occurrence of a target behavior by removing an aversive stimulus as a consequence.

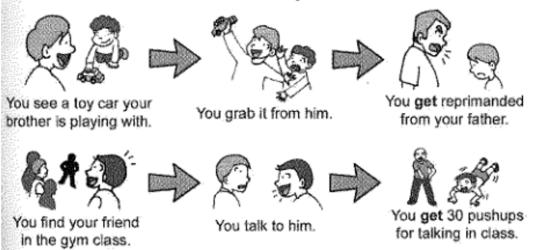






#### Positive Punishment (SP+)

Positive punishment (S<sup>p+</sup>) is a procedure that decreases the occurrence of a target behavior by providing an aversive stimulus as a consequence.

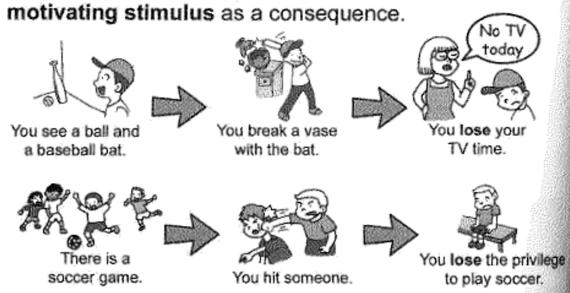


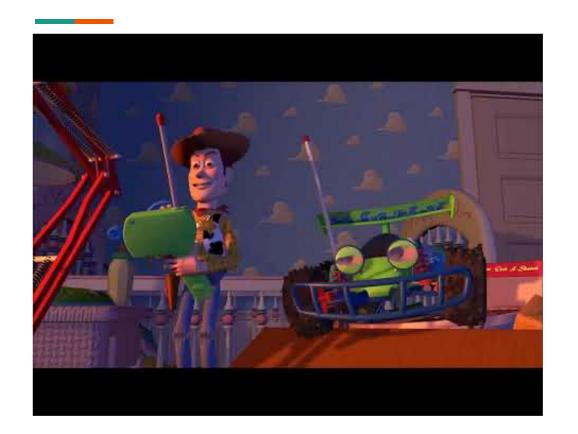
#### Different Types of Positive Punishment

Reprimands

#### Negative Punishment (SP-)

Negative punishment (S<sup>P</sup>) is a procedure that decreases the occurrence of a target behavior by removing a motivating stimulus as a consequence.





#### **Extinction**

- Reduces behavior by withholding or terminating the positive reinforcer that maintains an inappropriate target behavior
- Characteristics of behaviors on extinction:
  - Resistance to extinction
  - Increased rate of behavior extinction burst
  - Extinction-induced aggression
  - Spontaneous recovery
  - Imitation or reinforcement by others
  - Limited generalizability
  - Sensory extinction

#### **Extinction Considerations**

- Can the behavior be tolerated temporarily based on its topography and on its current rate of occurrence?
- Can an increase in the behavior be tolerated?
- Is the behavior likely to be imitated?
- Are the reinforcers known?
- Can reinforcement be withheld?
- Have alternative behaviors been identified for reinforcement?
  - Benoit & Mayer (1974)

# **Practice Questions**



- 1. Examples are food, water, sex, sleep.
- A. Secondary reinforcement
- b. Primary reinforcement
- c. Sd
- d. Consequence of behavior

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- A. Secondary reinforcement
- b. Primary reinforcement
  - c. Sd
  - d. Consequence of behavior

# 2. Examples are money and tokens.

- a. Primary reinforcement
- b. Secondary reinforcement
- c. Economic reinforcement
- d. Fiscal considerations

- 2. Examples are money and tokens.
- a. Primary reinforcement
- b. Secondary reinforcement
  - c. Economic reinforcement
  - d. Fiscal considerations

3. Removing a stimulus which decreases the future likelihood of behavior.

- a. Positive reinforcement
- b. Positive punishment
- c. Negative reinforcement
- d. Negative punishment

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- a. Positive reinforcement
- b. Positive punishment
- c. Negative reinforcement
- <a href="#">Negative punishment</a>

4. Increases the future likelihood of behavior.

- a. Punishment
- b. Motivation
- c. Rewards
- d. Reinforcement

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- a. Punishment
- b. Motivation
- c. Rewards
- d. Reinforcement

5. Withholding reinforcement for a target response

- a. Variable reinforcement
- b. Extinction
- c. Punishment
- d. Reinforcement schedule

5. Withholding reinforcement for a target response

- a. Variable reinforcement
- b. Extinction
- c. Punishment
- d. Reinforcement schedule

6. Adding a stimulus which increases the future likelihood of behavior.

- a. Positive reinforcement
- b. Positive punishment
- c. Negative reinforcement
- d. Negative punishment

6. Adding a stimulus which increases the future likelihood of behavior.

- a. Positive reinforcement >
  - b. Positive punishment
  - c. Negative reinforcement
- d. Negative punishment

7. What occurs when reinforcement of a previously reinforced behavior is no longer provided, resulting in the decrease of frequency of the behavior in the future?

- a. Extinction
- b. Endangerment
- c. Pivotal Response Training
- d. Negative reinforcement

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#### a. Extinction

- b. Endangerment
- c. Pivotal Response Training
- d. Negative reinforcement

8. Extremely bright lights, freezing temperature, electric shock are all examples of which punisher?

- a. Conditioned
- b. Unknown
- c. Unconditioned
- d. Secondary

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- a. Conditioned
- b. Unknown
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- d. Secondary

9. Adding something that will motivate a person to increase the likelihood that they will engage in the target behavior again. What type of reinforcement is this?

- a. Positive
- b. Negative
- c. Continuous
- d. Discontinuous

9.Adding something that will motivate a person to increase the likelihood that they will engage in the target behavior again. What type of reinforcement is this?

- a. Positive
- b. Negative
- c. Continuous
- d. Discontinuous

10. This follows a response and increases the probability of that response occurring again in the future.

- A. Punishment
- b. Reinforcement
- c. Consequence
- d. Stimulus

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- A. Punishment
- b. Reinforcement
  - c. Consequence
  - d. Stimulus

## 11. Money is an example of what type of reinforcement?

- a. Negative
- b. Unconditioned
- c. Secondary
- d. Primary

## 11. Money is an example of what type of reinforcement?

- a. Negative
- b. Unconditioned
- c. Secondary
- d. Primary

12. For a child who is always picked up when they cry, not picking them up in the future would be an example of...?

- a. Escape
- b. Elopement
- c. Extinction
- d. Negative reinforcement

12. For a child who is always picked up when they cry, not picking them up in the future would be an example of...?

- a. Escape
- b. Elopement
- c. Extinction
- d. Negative reinforcement

## 13. Food is an example of what type of reinforcer?

- a. Unconditioned
- b. Conditioned
- c. Negative
- d. Positive

## 13. Food is an example of what type of reinforcer?

- a. Unconditioned
- b. Conditioned
- c. Negative
- d. Positive

14. Removing something that increases the future likelihood of behavior is called...

- a. Negative punishment
- b. Negative reinforcement
- c. Positive punishment
- d. Positive reinforcement

14.Removing something that increases the future likelihood of behavior is called...

- a. Negative punishment
- Negative reinforcement
  - c. Positive punishment
  - d. Positive reinforcement