

## **Operant Conditioning Experiment**

### **INTRODUCTION:**

The study that we have conducted incorporates the use of operant conditioning. Operant conditioning is a type of learning in which organisms associate their own actions with consequences; behavior is strengthened if followed by a reinforcer or diminished if followed by a punisher. Operant conditioning involves operant behavior, as the organism's behavior is essential on making something happen; it operates on the environment to produce the rewarding or punishing stimuli. In psychologist Edward L. Thorndike's Law of Effect, he states that "rewarded behavior is likely to recur", meaning that if a consequence to an action is pleasant, the proceeding behavior will become more frequent. Respectively, if the consequence is unpleasant, the behavior diminishes. Studies have shown that positive reinforcement has proven to be more effective than negative reinforcement or punishment. We are testing the operant behavior of the subject, a dog named Jack, as B.F. Skinner conducted his studies on operant conditioning with rats and pigeons. He designed an operant chamber, which contained a key that an animal could manipulate to obtain a reinforcement. In this case, the positive reinforcement was food and water and were essential for his experiments.

Rationale: Our experiment is an extension of the previous research on operant conditioning. These behavioral principles that were experimented on in labs have been put to use by animal behaviorists, people who train animals. People often use positive reinforcement and repetition to train animals to perform tricks or to shape their behavior.

Aim: The aim of our study is to use the principles of operant conditioning to train Jack how to roll over through the use of positive reinforcement.

Hypothesis: My hypothesis of the experiment is that Jack will successfully learn how to roll over.

### **METHOD:**

Participants: This experiment consists of only one test subject, Jack. He is Majken's dog and has been trained previously to do other things, such as sit, lay down, and shake. The researchers of this experiment consist of Aeja (17), Majken (18), and myself (16).

#### Apparatus:

1 video camera: used to record the experiment

Several dog treats: pleasurable stimuli for dogs, used to act as positive reinforcers to strengthen the behavior of rolling over

#### Procedure:

1. Get the subject to stay in the kitchen, where the experiment will be conducted
2. Have the positive reinforcers (dog treats) at the ready
3. Give commands to "sit" and then "lay"
4. Command the dog to roll over using hand motions
5. Demonstrate the process of rolling over by physically rolling the dog
6. Command the dog to roll over
7. Repeat this process several times, rewarding the dog with a treat and a "Good boy" with every success

# Research Paper Operant Conditioning

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