Name: _____ Date: _____

Repetition vs Replication

Watch the video

1. Dr. Smith has been reading about another scientist's research in a physics journal. He plans to do these experiments himself and see if he gets the same result.

2. Julie goes to Silver River each week for 4 weeks and collects 5 samples of water to test the pH.

3. An environmental group contacts Julie to get her procedures so that they can check her results.

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4. John was mixing a batch of glue and borax solution to make silly putty and discovered a new substance that glows in the dark. He gave Ryan his specific amounts of ingredients and the steps of his procedure. He asked Ryan to try the experiment to see if he gets the same results.

5. Mary baked chocolate chip cookies that wound up looking like muffins. She asked Jane to use the same directions and see if her cookies also look like muffins.

6. Mike has taught his pet rat to run a maze. He thinks that the rat will go faster if he puts its favorite treat at the end. He has the rat run the maze ten times with the favorite treat and ten times with a regular food pellet. He uses a stopwatch to measure how long it takes for the rat to get to the reward.

7. Billy is testing golf balls. He drops three different brands of balls from 40 cm and measures how high they bounce. He drops each ball 10 times.

8. Steve was given a set of 5 metal cubes. He calculated the densities of each to determine the type of metal in each. The densities were really close to each other, so he asked his friend Robert to do the same experiment and see if he gets the same results.

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