

Name: _____ Date: _____ Period: _____

Exit Ticket

Listen to the translation in Spanish



Dante loves taking care of the chickens on his farm. He feeds them rice everyday. His Grandma told him that he should feed them corn everyday instead of rice because it will make them grow fatter.

He decides to do an experiment to test what type of food will make his chickens fatter. Before the experiment, the chickens weigh an average of 5 pounds. David makes two groups of chickens. He feeds Group A rice everyday, and feeds Group B corn everyday. After one month, David weighs the chickens to see if they gained any weight. Group A weighs an average of 5 pounds and group B weighs an average of 7 pounds.

1. What is the test variable (independent variable) in this experiment?





2. What is the outcome variable (dependent variable) in this experiment?


3. What variables should Dante maintain constant?

4. What should Dante's conclusion be?





5. Jorge wants to know whether music affects plant growth. He puts two identical plants in separate rooms. One room is sunny and has a stereo playing rock music all day. The other room is quiet and dark. He gives both plants the same amount of water. After two weeks he compares the plants. The plant in the room with music is green and growing. Leaves on the plant in the other room are turning yellow. He concludes that music helps plants grow.


 What makes his scientific explanation weak?

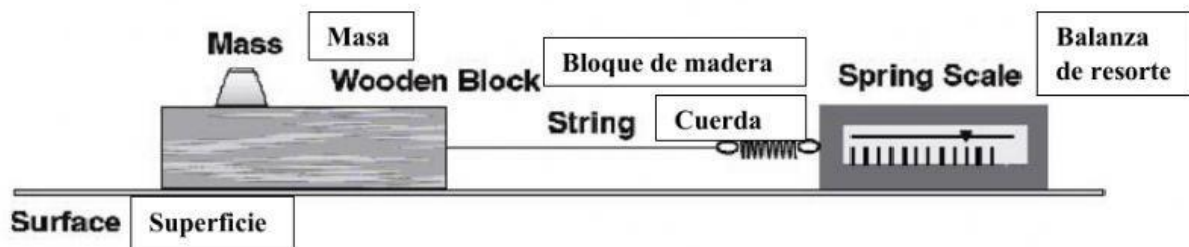
-  A. He did not have a testable hypothesis.
-  B. He did not use two different plants in each room.
-  C. He did not add fertilizer to the plants in either room.
-  D. He had more than one variable in his experimental conditions.





-  6. A student wants to shorten the ripening time for tomatoes. He predicts that the more water the seedlings receive, the faster the tomatoes will ripen. He grows 20 tomato plants in a garden in full sunlight that has dry soil, and 20 tomato plants in the same garden where there is more moisture in the soil. He records the time it takes for fruit to develop and ripen on the plants in each location.

 What is test variable (independent variable) in this experiment?

-  A. The time it takes for the fruit to develop and ripen.
-  B. The tomato seedlings at different stages of development.
-  C. The amount of sunlight each plant receives.
-  D. The amount of moisture each plant receives.

-  7. Jerry is conducting an experiment to test friction. His setup is shown below. If he wants to test the friction between different types of materials, what should he change in the setup above?



-  A. Replace the mass with a different size mass
-  B. Replace the string with a different length string
-  C. Replace the spring scale with a different kind of scale
-  D. Replace the wooden block with a different kind of block