

Cricket Investigation Lab Report

Read the investigation and write a conclusion for the investigation.

Tracey and Brendan wondered about the effect of light on the number of cricket chirps in the classroom cricket farm. They did the following investigation.

Question: How does the amount of light affect the number of cricket chirps?

Prediction (hypothesis): As the amount of light increases the number of cricket chirps will increase because crickets need light to reproduce and chirping serves an important function in cricket reproduction.

Materials:

cricket in a classroom terrarium with food and water
lamp
low powered light bulb (40 Watt bulb)
high powered light bulb (120 Watt bulb)
stopwatch

Procedure:

1. Carefully set everything up as shown in the Investigation Set-up diagram.
2. Cover the terrarium with black paper for 30 minutes.
3. At the end of 30 minutes, count the number of times the cricket chirps in 1 minute and record.
4. Remove the black paper and place the low powered light bulb into the lamp, turn on the lamp and place it next to the terrarium for 30 minutes.
5. Repeat step 3.
6. Remove the low powered light bulb and place the high powered light bulb into the lamp. Turn on the lamp and place it in the same location next to the terrarium for 30 more minutes.
7. Repeat step 3.
8. Repeat the investigation (steps 2-7) for Trials 2 and 3.
9. Calculate and record the average for the trials.

Data:

Number of Chirps per minute				
Amount of Light	Trial 1	Trial 2	Trial 3	Average
No light	2	3	4	3
40 Watt bulb	10	12	11	11
120 Watt bulb	34	33	35	34

Results summary:

