

Charles and Cicely's Study Experiment

Performance Event

Charles and Cicely wanted to do an experiment to see which study method improves grades the most- “study buddy” or flash cards. They agreed to do an experiment over 6 weeks. In the experiment, Charles would study science using only flash cards, while Cicely would use the study buddy method whenever she studied science. They decided to use their science class grade to see which method worked better. They believed that the flash card method would improve grades more than the study-buddy method.

At the end of the first week of the term, Cicely had a 72% grade, while Charles had an 86%. When the second week ended, Charles had an 86%, while Cicely had raised her grade to 74%. During the third week, they had a quiz in science class, and Cicely raised her grade to 75% while Charles grade was at 85%. During week four, Charles raised his grade back to 86% while Cicely's grade went up to 77%. At the end of week 5, Charles grade rose to 87% while Cicely move all the way up to 78%. During the last week of the term, Charles finished with an 86% while Cicely finished with 82%.

Name:

Hr

Bell Work for Monday- Answer 1-8

1. What is a testable question for this investigation? (2 pts)

2. Write an appropriate hypothesis for this investigation. (2 pts)

3. Identify the independent variable for this investigation. (2 pts)

4. Identify the dependent variable for this investigation. (2 pts)

5. Identify two variables, other than the one investigated, that could have an effect on the student's grades (2 pts)

a) _____

b) _____

6. Why is it important to hold some conditions constant during an investigation? (2 pts)

7. Identify two factors that should be held **constant** for this investigation. (2 pts)

8. Identify three pieces of laboratory equipment necessary to conduct this investigation. (3 pts)

1. _____

2. _____

3. _____

Name:

Hr

Bell Work for Tuesday- Answer 9

9. Using the data from page 1, construct a data table below.

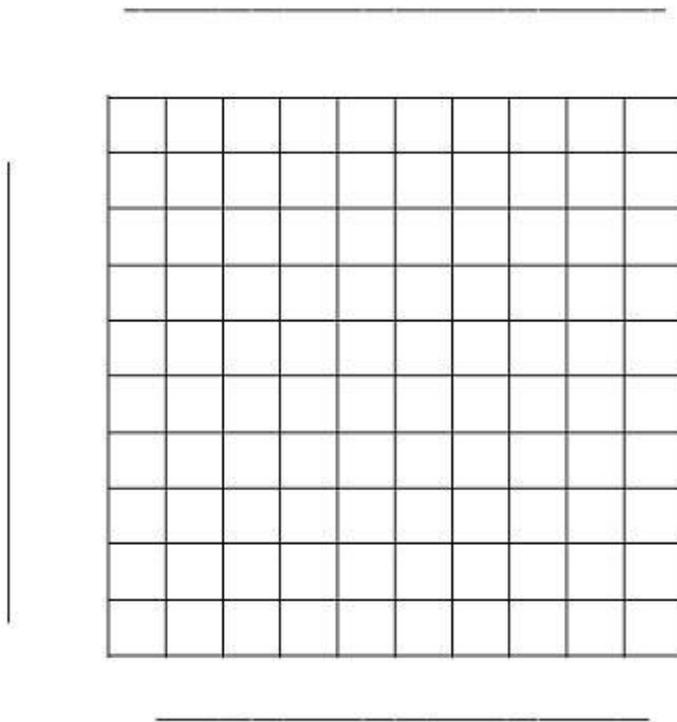
Name:

Hr

Bell Work for Weds/Thurs- Answer 10

10. Using the data from your table, construct a TWO LINE on the grid below. Be sure to provide:

- An appropriate title (2 pts)
- Labeled axes with appropriate units (4 pts)
- Appropriate number scales (4 pts)
- Correctly plotted data (5 pts)



Remember: when showing change over time, the time ALWAYS goes on the x-axis. The DV goes on the Y axis, and the levels of IV are shown in different lines on the graph!

Bell Work for Friday- Answer 11

11. Write a conclusion based on your experimental findings. (5 pts)
