

Writing Up an Investigation Bell Work – Teacher Edition

Analyze the given situation below. Then, answer the following questions.

A student wanted to test how the mass of a paper airplane affected the distance it would fly. Paper clips were added before each test flight. As each paper clip was added, the plane was tested to determine how far it would fly.

1. Which of the following is the correct problem for this investigation?
 - A. How far can the paper airplane fly?
 - B. How long will it take for paper airplane fly?
 - C. How many paper clips can be added to the paper airplane?
 - D. How does the mass of a paper airplane affect the distance it would fly?

2. Based on the problem, what could be the best hypothesis for it?
 - A. If more paper clips are added to the paper airplane, the faster it will fly.
 - B. If more paper clips are added to the paper airplane, the farther it will fly.
 - C. If more paper clips are added to the paper airplane, the shorter it will fly.
 - D. If more paper clips are added to the paper airplane, the heavier it will become.

3. Which is the independent variable in this investigation?
 - A. color of paper clips
 - B. size of paper airplane
 - C. distance covered by the paper airplane
 - D. number of paper clips added to the paper airplane

4. Which is the dependent variable in this investigation?
 - A. color of paper clips
 - B. size of paper airplane
 - C. distance covered by the paper airplane
 - D. number of paper clips added to the paper airplane

5. Which should be kept constant in this experiment?
 - A. color of paper clips
 - B. size of paper airplane
 - C. distance covered by the paper airplane
 - D. number of paper clips added to the paper airplane

Writing Up an Investigation Bell Work – Teacher Edition

Analyze the given situation below. Then, answer the following questions.

A student wanted to test how the mass of a paper airplane affected the distance it would fly. Paper clips were added before each test flight. As each paper clip was added, the plane was tested to determine how far it would fly.

1. Which of the following is the correct problem for this investigation?
 - A. How far can the paper airplane fly?
 - B. How long will it take for paper airplane fly?
 - C. How many paper clips can be added to the paper airplane?
 - D. How does the mass of a paper airplane affect the distance it would fly?

2. Based on the problem, what could be the best hypothesis for it?
 - A. If more paper clips are added to the paper airplane, the faster it will fly.
 - B. If more paper clips are added to the paper airplane, the farther it will fly.
 - C. If more paper clips are added to the paper airplane, the shorter it will fly.
 - D. If more paper clips are added to the paper airplane, the heavier it will become.

3. Which is the independent variable in this investigation?
 - A. color of paper clips
 - B. size of paper airplane
 - C. distance covered by the paper airplane
 - D. number of paper clips added to the paper airplane

4. Which is the dependent variable in this investigation?
 - A. color of paper clips
 - B. size of paper airplane
 - C. distance covered by the paper airplane
 - D. number of paper clips added to the paper airplane

5. Which should be kept constant in this experiment?
 - A. color of paper clips
 - B. size of paper airplane
 - C. distance covered by the paper airplane
 - D. number of paper clips added to the paper airplane