

FOUR A'S PROTOCOL - LIFE SCIENCE

NAME:

TOPIC: THE EFFECTS OF FERTILIZER ON PLANT GROWTH

SCIENTIFIC PROBLEM

Research Question: How does the amount of fertilizer affect the growth of bean plants? Hypothesis: If bean plants are given more fertilizer, then they will grow taller and have more leaves than plants that are given less fertilizer.

Step 1

Read the question and hypothesis silently. Highlight and take notes in the margins that relate to the four questions. Reference the note taking tips for support.

1. What are we being asked to find or solve for in this question?
2. What information is given in the hypothesis that we can analyze?
3. How can we arrange an experiment to test the hypothesis?
4. How can we assess the data to find a conclusion?

Note taking tips

As a Responder remember to:

- Highlight important information in the margin.
Example: "Find the dimensions"
- Avoid highlighting entire sentences.
- Underline numbers and math words that support the question.
- Create an "emoji" system.

Example:

? = Ask ★ = Analyze ! = Apply ✓ = Assess

Step 1

In groups share out your answers, keeping track of who shared by initialing next to your name. After everyone has shared, bullet 4 takeaways for each question.

Name	Question #1	Question #2	Question #3	Question #4
Group Takeaways				