

Wisconsin Fast Plants and Fertilizer

Learner Outcome:

The student will be able to conduct an experiment and provide explanation to see how the amount of fertilizer (environmental factor) can affect the growth of the Wisconsin Fast Plants (Standard MS-LS-1-5).

1) **Problem:** Does extra fertilizer help or hurt a plant's growth?

2) **Hypothesis:**

3) **Procedure:**

- Fill quad #1 and quad #2 with equal amounts of soil.
- Add 3 fertilizer pellets to each cell of quad #1.
- Add 20 fertilizer pellets to each cell of quad #2.
- Place one germinated seed in each cell of both quads.
- Add equal amounts of water to each plant of both quads.

4) **Gather, Record, Organize Data:**

Make 2 observations about quad #1.

Make 2 observations about quad #2 (extra fertilizer)

5. Analyze Data:

Which quad is the control group?

Which quad is the experimental group?

What is the variable?

What are 4 constants in the controlled experiment?

What does the extra fertilizer seem to do to the plants?

Conclusion:

