

EXAMPLE EXPERIMENT

PROBLEM: How much fertilizer will help a particular species of plant to grow best?

RESEARCH all factors needed for growth → amount of sunlight, amount of water; air temperature; soil type and soil conditions; types of nutrients (*fertilizer*) needed by the plant

EXPERIMENT DESIGN:

1. Grow one plant in a specific amount of sunlight, water and temperature, and a specific type and amount of soil and fertilizer
2. Grow three other plants in *differing amounts of the same fertilizer*, under the exact same conditions as the first plant
3. Grow a fifth plant, under the exact same conditions, but *without any fertilizer*

EXPERIMENT CONCLUSION: The plants in fertilized soil grew the tallest and healthiest, with one of these growing much larger than the others.

CONSTANTS:

INDEPENDENT VARIABLE:

DEPENDENT VARIABLE:

CONTROL GROUP:

EXPERIMENTAL GROUP:
