

Asking a testable question

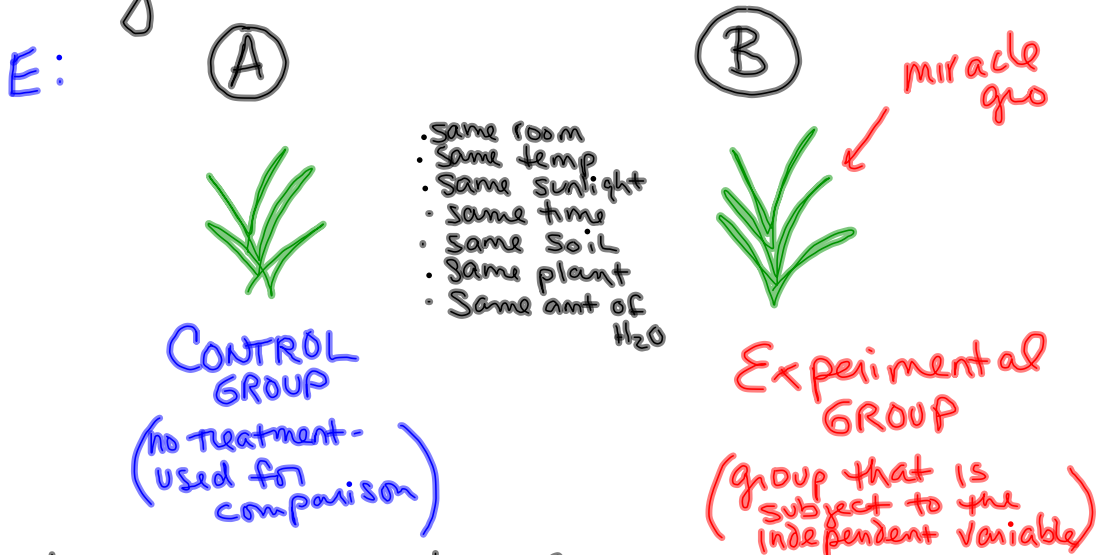
What makes a question "testable"?

- It is specific ✓
- you can design an experiment to test it ✓
- your experiment will give you measurable results ✓

Will plants given Miracle-Gro fertilizer grow ~~better~~ than those without it? Not testable

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Q Will plants given miracle-gro grow taller than those without it?

H: Plants given Miracle-gro will grow taller than those without it.



In an experiment we only want 1 ^{independent} variable (ex: Miracle Gro)

- Independent Variable - the thing that you change in the experiment (ex: miracle gro)

We also have a

- Dependent Variable - what you are measuring (ex: height)

Does the sun heat saltwater
+ freshwater at the same
rates? Testable

Does a hotter oven temp
make ~~better~~ brownies?

Not testable

Does a hotter oven temp.
cook brownies faster than lower
temp?

Do bees prefer yellow roses over red ones?

Y

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