

Scientific thinking and processes

We talked about what a lab looks like. We talked about the 5 steps we need to do for every lab we have.

What's the difference between

→ OBSERVING

EVALUATING

FORMING A

RESULTS

HYPOTHESIS

↑

TESTING

ANALYZING DATA

HYPOTHESIS

3) Designing and testing an experiment

- Independent variables are manipulated

↓

Dependent variables are observed and measure

(Title)

(key)

☐

(Dependent variable) (units)

(Independent variable) (units)

1) Making an observation

Observational studies allow

scientists to describe a phenomenon

2) Forming a hypothesis

• A hypothesis is a possible explanation to a scientific question or event

• A hypothesis must be testable
Ex. If I water my plant, then it will grow.

4) Collecting and Analyzing

• Scientists analyze data draw conclusions about the experiment performed

5) Drawing conclusion

• Summarize what you

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