

Scientific Process Notes

Lab Title: _____

Investigative Question (Problem Statement)

Question you use the lab to answer

How often does a plant need to be watered, to grow tall

Manipulated Variable (What scientist changes)

manipulated = changed
what you do / change in experiment

ex: how often you water a plant

Responding Variable (What scientist records)

Recorded Data.
- has to be quantity! Has to be specific

ex: grow tall

Controlled Variables (What stays the same for each trial)

Hypothesis (If... then... because)

IF (manipulated variable) if the plant is watered
Then (how the responding reacts) then it will grow (taller) (shorter)
Because (scientific reason)

Materials List

Diagram of Procedure

Picture of how to set up experiment
- should be enough to set up by itself!

Procedure (detailed steps)

all steps needed to perform experiment
- Be clear, be simple!

Data Table

Title _____

MV	RV	Trials
1ml		
2ml		
3ml		
ect.		

3 trials + average in case of weird Data

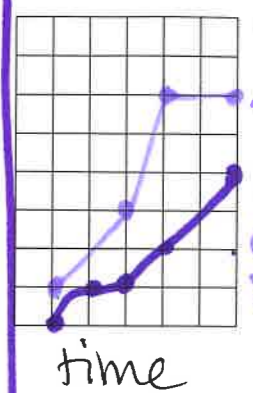
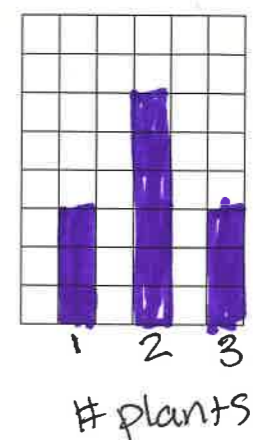
average!

trial 1 trial 2 trial 3

Graph two types of Graph

Bar: compare diff groups

Line: used to show trends



- points
- connected w/ line
- can compare several

Rare in Bio

most common

Conclusion

Answer to Question (claim)

High data (evidence)

Low data (evidence)

Why does the data support the answer?

Scientific reason for answer