Week 3 Notes

Title	Date
C-notes	9.9.13
What is science?	9.9.13
What is an inference?	9.9.13
Anchor Questions	9.9.13
What is observation?	9.10.13
Apple Observation	9.10.13
Tab Week 3	9.16.13
AQ w3	9.16.13
Graphs-Parts & Types	9.17.13
Variables Recap/Examples	9.18.13
Explain Notes	9.19.13

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Milton Family's Budget (Title)



- Topic: Graph Parts
- Title
- Labels
- X-axis
- Y-axis



Graph Types



Bar Graph

- Good for "counting"
- Counting numbers are always on the y axis
- What you are counting goes on the x-axis



Graph Types



Line Graph

- Good for showing changes over time
 - "Time" is always on the x axis What you are counting goes on the y-axis



Graph Types

Milton Family's Budget (Title)







8th Anchor Questions Week 3 (Sept. 16-20) Questions Due: Friday, Sept. 20 Assessment date: Friday, Sept. 20

- 1. Write a procedure for the following question: Does the "Skinny Pill" help you lose weight?
- 2. Explain how to make a sandwich (your choice)
- 3. Explain, briefly, what each type of the three graphs (pie, graph, bar) is good for representing
- 4. List the basic parts of a graph
- 5. What SI units of measurement are used for measuring length? List them from large to small
- Explain what a "control" is in an experiment and why it is used
- 7. SKILL: graph interpretation and construction; identifying dependent and independent variables

Vocabulary

Data	Hypothesis	Procedure	Manipulated (independent) variables
Bar .	Explain	Line graph	Dependent variables
graph X axis	control	Labels	Trials
Y axis	Pie graph	Conclusion	Title

7th Anchor Questions Week 3 (Sept. 16-20) Questions Due: Friday, Sept. 20 Assessment date: Friday, Sept. 20

- 1. Explain how to make a sandwich (your choice)
- Explain, briefly, what each type of the three graphs (pie, graph, bar) is good for representing
- 3. List the basic parts of a graph
- 4. Write a procedure for the following question: Does the "Skinny Pill" help you lose weight?
- Explain what a "control" is in an experiment and why it is used
- 6. SKILL: graph interpretation and construction; identifying dependent and independent variables

Vocabulary

Data	Hypothesis	Procedure	Manipulated (independent) variables
Bar .	Explain	Line graph	Dependent variables
graph X axis	Pie graph	Labels	Trials
Y axis	control	Title	

Write a procedure for the following question: Does the "Skinny Pill" help you lose weight?

- Independent Variable: taking the "Skinny Pill" or not
- Dependent Variable: weight lost
- Controlled Variable (CONSTANTS): diet, age, gender, activity level (exercise), amount of time
- Step 1- Get a group of ten 25-30 year old men that are of similar weight and build. They must have maintain a set diet and exercise routine for the next 30 days. Weigh all subjects at the beginning.
- Step 2- Five men will get the "Skinny Pill" for 30 days. (GROUP A)
- **Step 3- Five men will get a sugar pill (placebo) that looks like the "Skinny Pill" (GROUP B)**
- Step 4- Weigh all subjects at the end and calculate the average weight loss for each group.

Write a procedure for the following question: Does the "Skinny Pill" help you lose weight?

- Independent Variable: taking the "Skinny Pill" or not
- Dependent Variable: weight lost
- Controlled Variable (CONSTANTS): diet, age, gender, activity level (exercise), amount of time

Step 1- Start with two people that are of similar weight and build. They must have maintain a set diet and exercise routine for the next 30 days. Weigh all subjects at the beginning.

- Step 2- One person will get the "Skinny Pill" for 30 days. (Step 3- The other person will get a sugar pill (placebo) that looks like the "Skinny Pill"
- Step 4- Weigh both subjects at the end and calculate the weight loss

Internet Activity: Mr. I Portal Exploration Type in the address bar, exactly: mrinchatolms.homestead.com

- 1. Look for "Scheduled Events" (near center of page) for your grade and write down what is due for this week
- 2. Look on the left side for the "navigation links" (Starts with Mr. I Portal) and click on "Class Notes", then open the Week 2 notes. Then go back to the Portal
- 3. Scroll down the navigation links to: "8th grade Info" (or 7th grade Info if you are a in 7th grade) and click on it. Write down the color of the words for the Anchor Questions Week 3.

- 4. Click "8th grade Internet Activities" (or 7th grade Internet Activities if you are a in 7th grade) and play the Graphing Jeopardy until you earn \$800
- 5. Go to the "navigation links" and click on "Brain Games". Once there play the "Hit the Dot" and play the game. Write down your top three scores Score 1 Score 2 Score 3

Names

Hour

WYK 091813

This What You Know quiz is to see what you learned about yesterday's material

 What is the address for Mr. I Portal?

- 2. What <u>specific</u> information about <u>this</u> science class can you find on the portal?
- 3. List the four parts of a graph

4. List the three types of graphs and write which is best for showing changes over time?

WYK 091813

This What You Know quiz is to see what you learned about yesterday's material

 What is the address for Mr. I Portal?

mrinchatolms.homestead.com

2. What <u>specific</u> information about <u>this</u> science class can you find on the portal?

Anchor Questions, notes, scheduled events

3. List the four parts of a graph

Title, labels, x-axis, y-axis

4. List the three types of graphs and write which is best for showing changes over time? 4. List the three types of graphs and write which is best for showing changes over time?

Bar, Line and Pie Line graphs are best for showing changes over time

C-notes What is a Variable?

Variables- a variable is something that might affect the "experiment" Variable just means "changes" or "changeable...something that can be changed....

C-notes Types of Variables

The <u>Manipulated</u> (Independent) variable is what the experimenter changes

The **DEPENDENT VARIABLE** is what you measure or observe

The <u>CONTROLLED VARIABLES</u> are also called CONSTANTS. That just means "doesn't change", it's what you keep the same.

C-notes Types of Variables

Example 1: Do dogs prefer beef or chicken? IV (independent variable): beef or chicken **DV** (dependent variable) what the dogs prefer, like **CV- (controlled variable):** amount of food, type of dog, distance from food, preparation

C-notes Types of Variables

Example 2: **Does the amount of sleep** affect math skills? IV (independent variable): amount of sleep **DV** (dependent variable) results of a math quiz **CV- (controlled variable):** quiz, level/age, sleep location/environment

C-notes Explain Notes

When you EXPLAIN something, you are giving details that will help the other person's brain understand more deeply...

C-notes Explain Notes

In order for you to "explain" something your brain has to:

- Think about the topic or task
- Organize how you are going to say it (steps, order, etc.)
- Depends on how much you know about the topic or task....

STUDENT:

Notebook Check/Quiz Week 3

All notes for the following titles should be in the notebook (and the table of contents)

Reviewer:

- Mark an M if missing
- Mark a check if there
- Write in the page number of each title
- Record the TOTAL number of M's here ______

Has on the front cover:	Has on the back cover:
Name	Name
Hour	Hour
Subject	Subject

Has on the front cover: Name Hour Subject		Has on the back cover: Name Hour Subject
Title	Date	Page #
Tab Week 2	9.9.13	1,2
AQ WZ	9.9.13	3,4
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For each table (a) identify the independent and dependent variable, (b) determine the type of graph to use, and (c) provide a title.

1.

Amount of daily sunlight exposure (min)	Average height of plants (cm)
50	14.8
60	14.9
95	15.2
75	15.1
110	16.5
135	17.3
100	16.1
30	11.0

a.	
b.	
c.	

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Student	Number of jelly beans consumed
Anthony	15
Keiko	28
Leigh Ann	58
Adam	22
Katie	12
Juan	17

a.	
b.	
с.	
ς.	

Use the worksheet from yesterday to create a graph of the data

