

# 7<sup>th</sup> & 8<sup>th</sup> Science Notes

Week 3

# Graphic Organizer Week 2

## Science

What is it?  
What does it do?

Observation:  
2 types

## Scientific Method 5 Basic Steps

## Variables

Independent

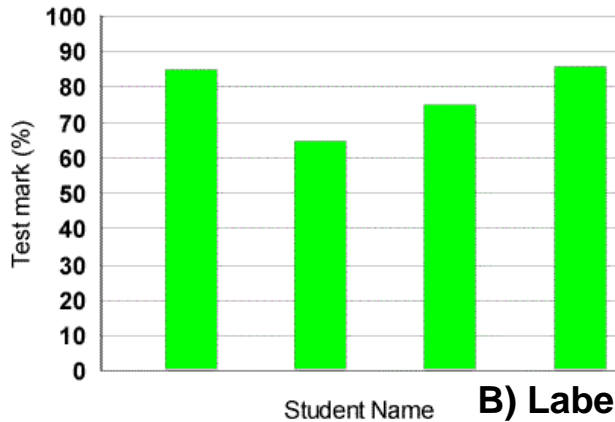
Dependent

Constants

# Parts

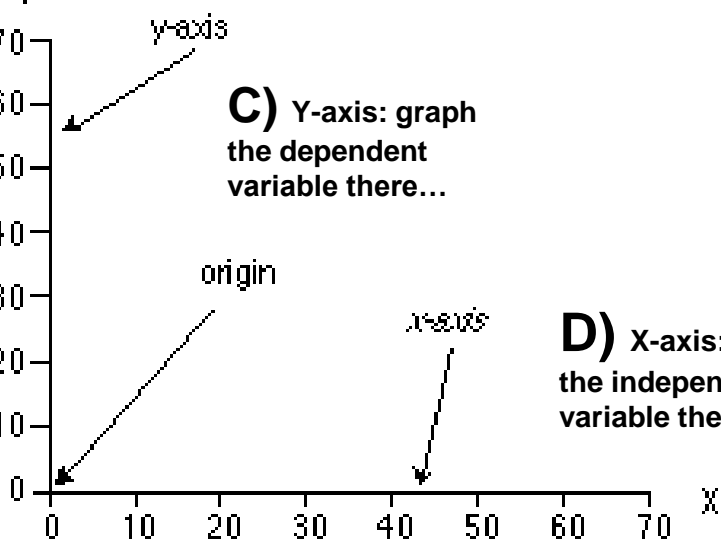
**A) Title:** tell you what the graph is about

**Student Test Marks**



**B) Labels:** identify what is shown on each axis

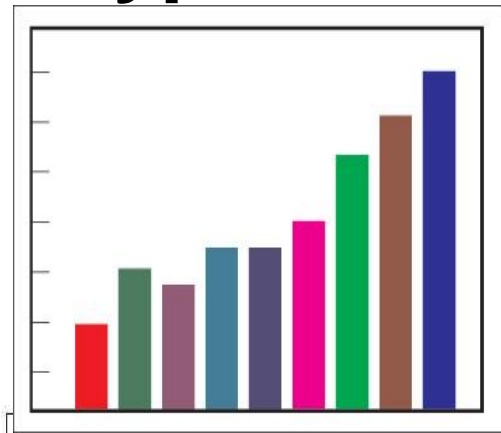
*Y goes high...*



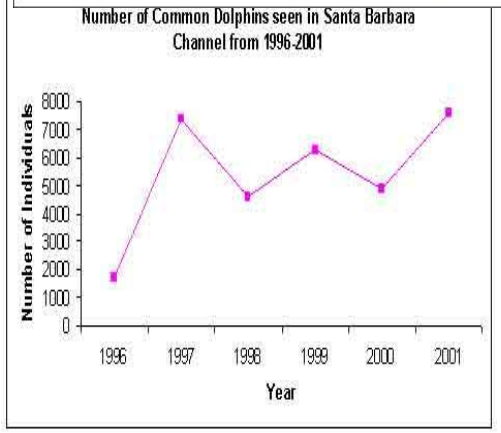
**C) Y-axis:** graph the dependent variable there...

**D) X-axis:** graph the independent variable there

Bar: good for counting, comparing amounts

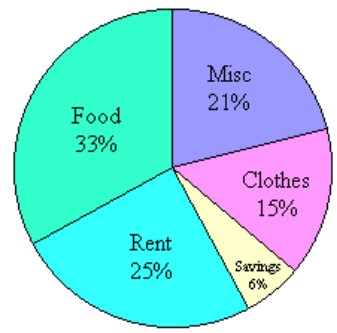


Line: good for showing changes over time



Pie: good for showing parts/relationships of a whole (i.e. percentages)

**Milton Family's Budget (Title)**



## 7th Anchor Questions Week 3 (Sept. 15-19)

**Questions Due: Friday, Sept. 19      Assessment date: Friday, Sept. 19**

1. Explain how to make a sandwich (your choice)
2. 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. What SI units of measurement are used for measuring length? List them from large to small
5. 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

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

## 8th Anchor Questions Week 3 (Sept. 15-19)

**Questions Due: Friday, Sept. 19      Assessment date: Friday, Sept. 19**

1. Explain how to make a sandwich (your choice)
2. 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. What SI units of measurement are used for measuring length? List them from large to small
5. 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

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

# Identify the Controls and Variables

Smithers thinks that a special juice will increase the productivity of workers. He creates two groups of 50 workers each and assigns each group the same task (in this case, they're supposed to staple a set of papers). Group A is given the special juice to drink while they work. Group B is not given the special juice. After an hour, Smithers counts how many stacks of papers each group has made. Group A made 1,587 stacks, Group B made 2,113 stacks.



1. What is the Question in this experiment?

Identify the:

2. Control Group
3. Independent (Manipulated) Variable
4. Dependent (Responding) Variable
5. What should Smithers' conclusion be?
  
6. How could this experiment be improved?



Homer notices that his shower is covered in a strange green slime. His friend Barney tells him that coconut juice will get rid of the green slime. Homer decides to check this out by spraying half of the shower with coconut juice. He sprays the other half of the shower with water. After 3 days of "treatment" there is no change in the appearance of the green slime on either side of the shower.

7. What is the Question in this experiment?

8. What was the initial observation?

Identify the-

9. Control Group

10. Independent (Manipulated) Variable

11. Dependent (Responding) Variable

12. What should Homer's conclusion be?

**Name**

**Hour**

**Internet Activity: Interpreting Graphs**

**Before we begin...email Mr. I at [mario.inchaustegui@wbsd.org](mailto:mario.inchaustegui@wbsd.org), write your last name, first name and the HOUR in the subject line**

**Type in the address bar, exactly: [mrinchatolms.homestead.com](http://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- Click on 7<sup>th</sup> grade Internet Activities (or 8<sup>th</sup> grade Internet Activity), on the navigation links on the left.**

**Then click on the links under "Internet Activity: Interpreting Graphs" to complete each part**



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**Then click on the links under "Internet Activity: Interpreting Graphs" to complete each part**

- **Reading Graphs**

Read the graphs and answer the questions. Record your Smart Score \_\_\_\_\_

- **Reading Graphs 2**

Answer the questions and record the CORRECT answer for each one

1.	2.
3.	4.
5.	6.
7.	8.
9.	10.

- **Interpreting Graphs**

Follow the lesson and answer the questions below

1. What was the first type of graph explained?
2. What is a histogram?
3. What was the last graph about?

- **Graphing Jeopardy** First, watch the "How to Read Graphs" animation, then play the game. You must earn at least \$2000 in prizes