THIS WEEK

Scientific Method. (Much).

Pick up worksheet (no sticker? You are missing vital info. Sticker = awesome).

How can I help?

Also, Characteristics of Life.

Pretest, Scientific Method

Variables!

Deer Game, graphing

Lab Safety-microscopes-CELLS!

TEST, Chapter One, Thursday/Friday

Pass out Books.

How do we learn?

Terri Schiavo.

Line

How do we write?





Answer one

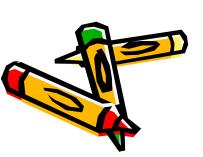
When considering the sanctity of life, one must first consider the morals, values, and principals that should govern us as a people. For a scientist, however, there is a unifying school of thought as to what constitutes a living entity. To be considered alive—not sentient, not intelligent, but nerely existing—ones must posses eight critical characteristics.. You must have cells, that is the smallest living unit an individual may possess. You nust also have either deoxyribonucleic acid, respond to their

environment (i.e., living creatures must have a tangible reaction to outside forces and stimuli). Other criteria includes a...

Answer Two

Living things must have 8 things:

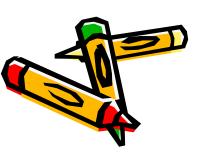
- 1. Made of cells
- 2. Adapt/Respond to environment
- 3. Internal Balance
- 4. Based on genetic code- DNA or RNA
- 5. Evolution- all organisms evolve over time
- 6. Consume energy
- 7. All organisms reproduce
- 8. All organisms grow and develop

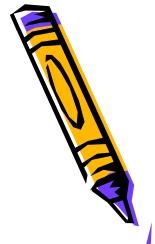




NOTES

- . Made of cells
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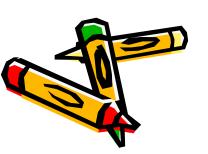


Made of cells

http://www.youtube.com/watch?v=pvOz4V699gk&feature=fvwrel

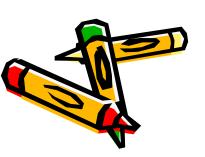
http://www.youtube.com/watch?v=a4aZE5FQ284&feature=fvwrel

Critical vocabulary when



describing cells?

Adapt and respond to environment http://www.youtube.com/watch?v=IMG
XfL3UUSU



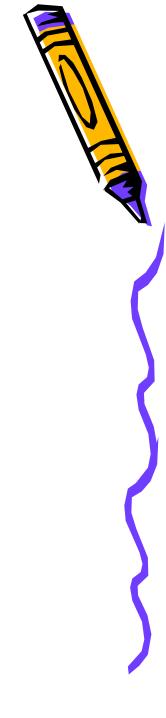
Homeostasis

http://www.youtube.com/watch?v=Aa2 qve75L9Y

39 seconds—1:32



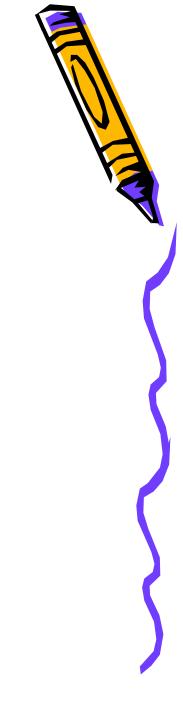
AIDS

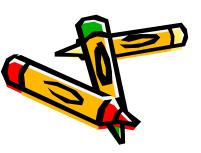




Evolution

Partner



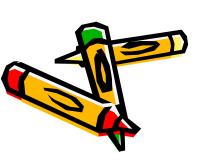


6. Why is Ms. Ringl super jealous of teenage boys (and Michael Phelps).



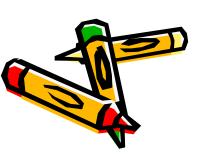
http://www.youtube.com/watch?v=4JI ytOL-Q18

"a" as a prefix means....?



http://www.youtube.com/watch?v=_2M FFzldkYQ&feature=related

3:30-4:30

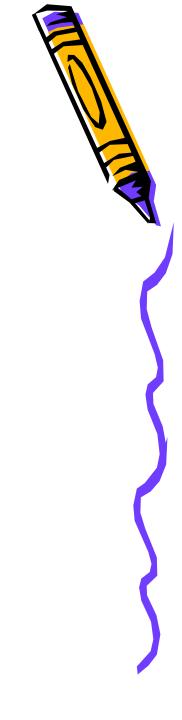


Review?

Eight groups.

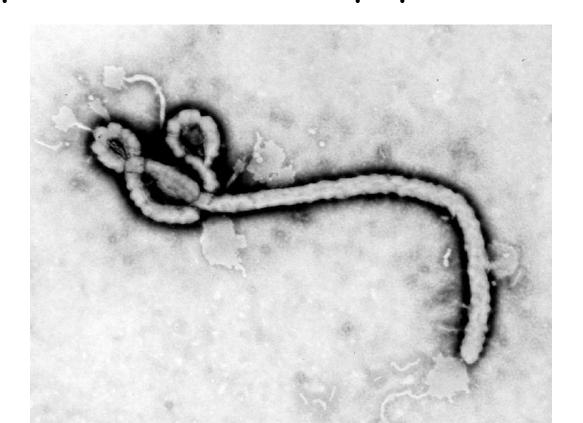
How do we learn?

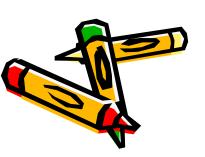




What do we look for in science...?

YOUR QUESTION (get a piece of bellwork paper).







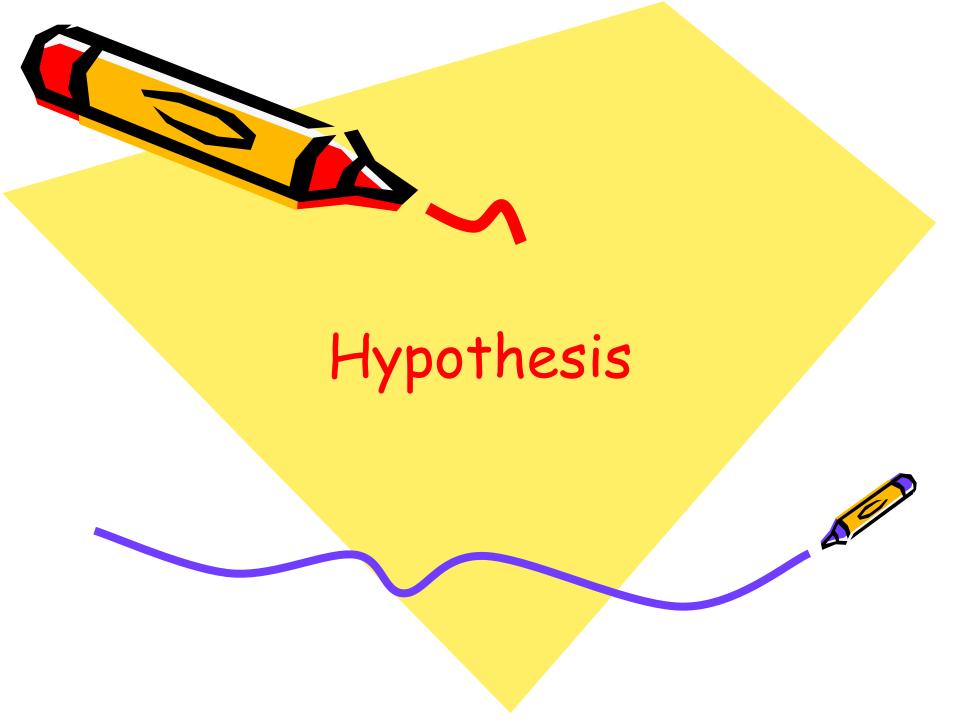
Steps of the Scientific Method

Sheets. Walk-through.

Concentrating on two parts today.



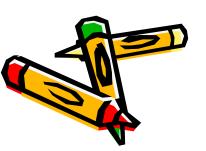




Step 2: Form a Hypothesis

Hypothesis: an educated guess or prediction; an "if, then" statement

If ___independent variable_____
then___dependent variable_____



Example:

Independent Variable:

I feed my cat a lot of food

Dependent Variable

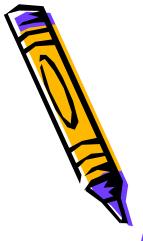
she will get fat

If _____then









Try to use INCREASE and DECREASE in your hypothesis!

Ex. IF I <u>increase</u> the amount of food I give my cat, THEN she will <u>increase</u> her weight

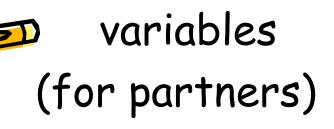


Now Try it on Your Own!

'Writing a Good Hypothesis"

Just 'plug and chug' in your variables!

Practice Sheet.





Identifying Variables

Step 4: Test your hypothesis





Variables...







Types of Variables

There are 2 main types of variables:

Independent Variable: The variable that is changed by the scientist; the 'I control' variable

Dependent Variable: The variable that might change because of what the seing measured

Your hypothesis can TELL you what your variables are!

Ex. If I drink Mountain Dew before bed, then I will not sleep very much.

IV: Drinking Mountain Dew V: the amount of sleep

PRACTICE!

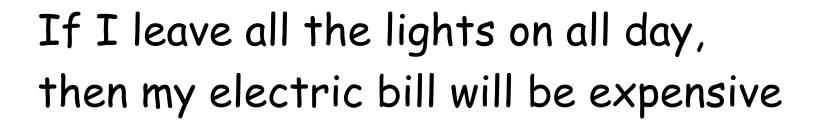
Use this hypothesis to identify the variable

If I leave all the lights on all day, then my electric bill will be expensive

IV: _____

Practice

Use this hypothesis to identify the variables:



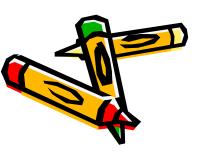
IV: ____



If I brush my cat more, then there will be less fur on my furniture

IV:			
~ \ \			

DV: _____



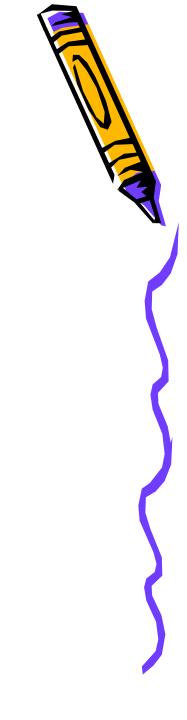
Elizabeth wanted to test if temperature affected how fast milk goes bad and curdles. She left milk in a room temperature closet, a fridge, and a oven that was turned on low heat. She then measured how rotten the milk was after 10 days.

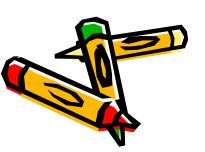
DV:_____



More practice

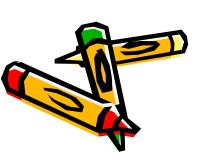
• Partners.





I may wind up regretting this...
http://www.youtube.com/watch?v=hwU3YL_SD70
&feature=related

· How do we learn?



More practice...

- On.
- · Your.
- OWN.

