



What are variables?

Or what changes during
experiments....

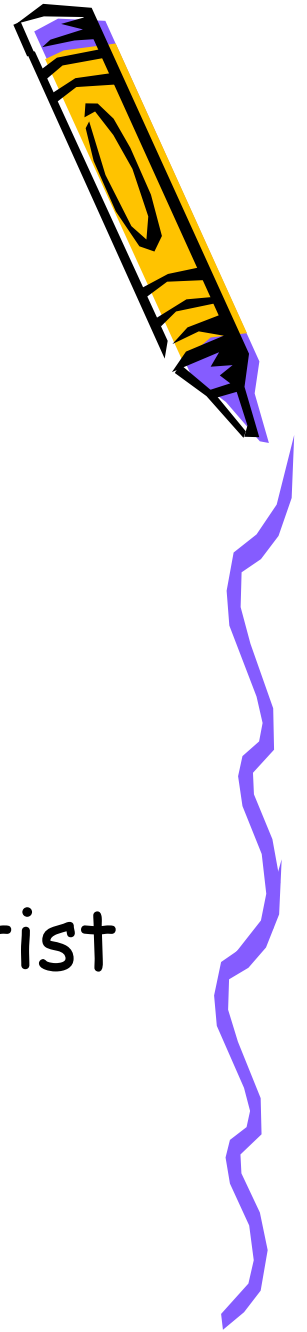


Dependent Variable

- What is _____

Independent Variable

- What is _____ by the scientist



Dependent Variable

- What is measured

1)

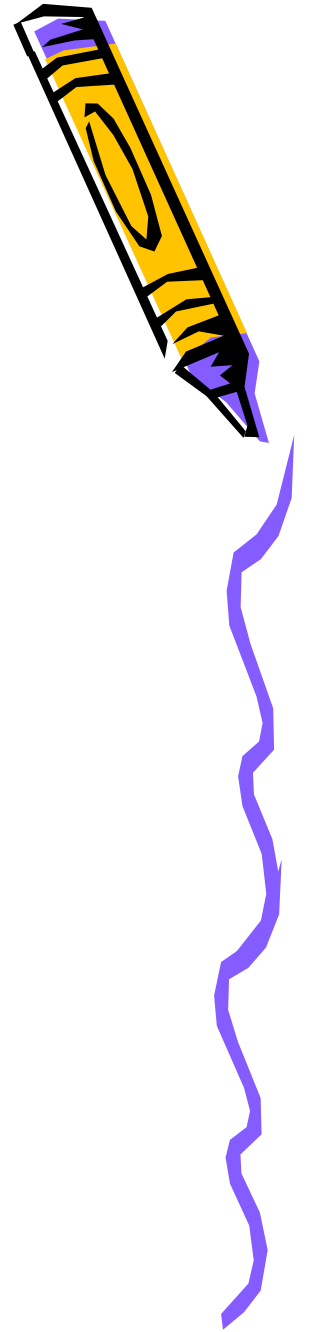
2)

3)

4)

5)

6)



Independent Variable

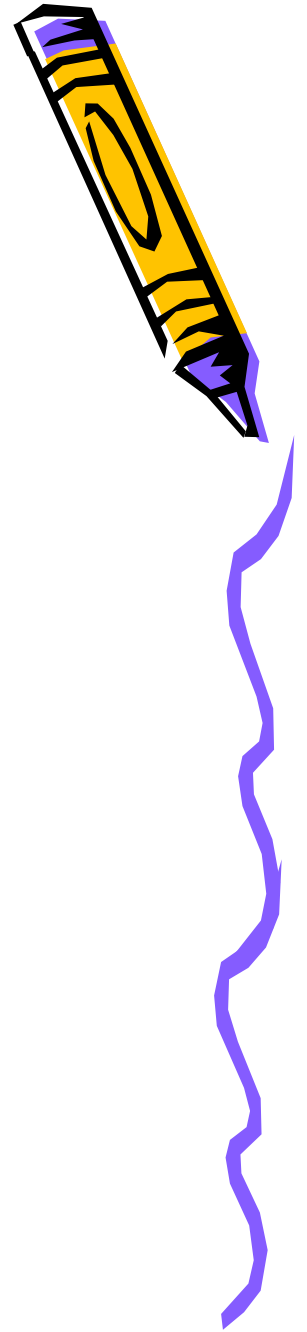
- What is changed by the scientist

PAPER AIRPLANES:

1) _____

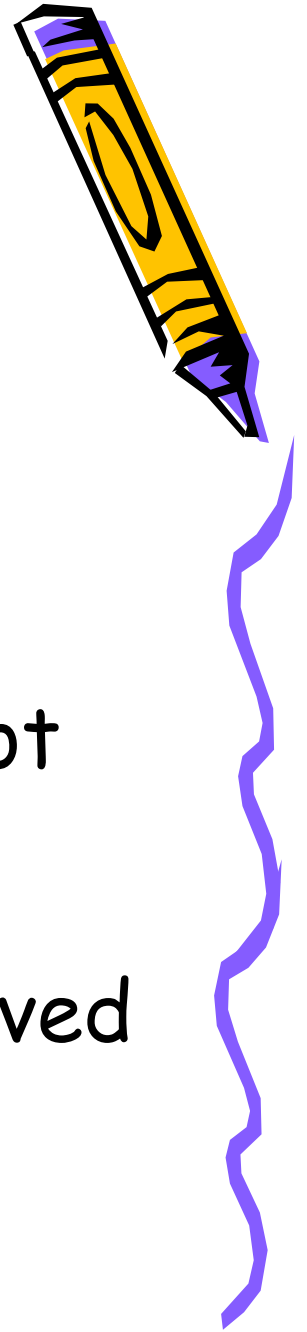
2) _____

3) _____



Example 1

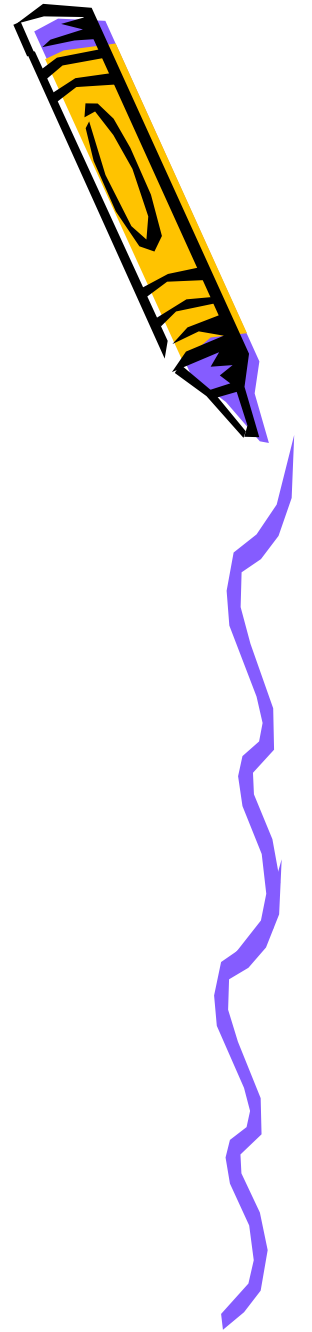
- Catherine and Drahke are arguing. Catherine thinks fish live longer in blue water, but Drahke thinks fish live longer in red water. So they got 3 fish tanks: 1 in clear water, 1 in blue water, and 1 in red water, and they measured how long the fish lived in each tank.



Example 1

- Independent variable (what is changed): _____

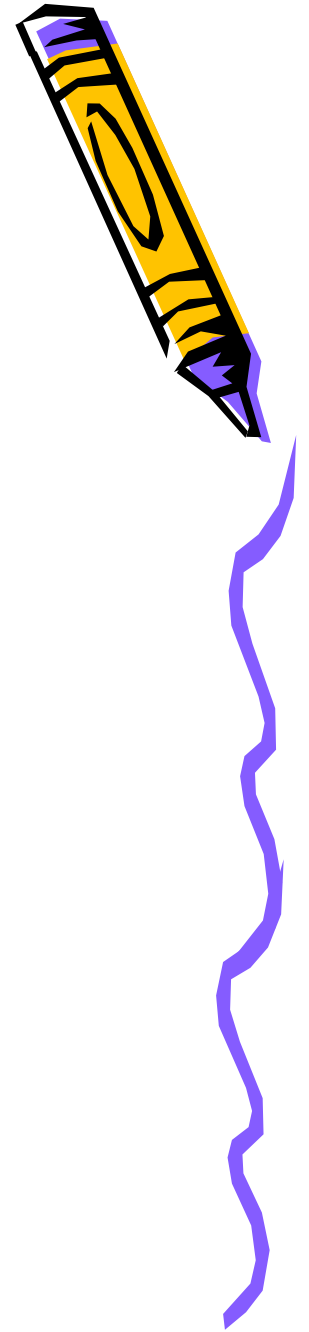
- Dependent variable (what is measured): _____



- Independent → _____
- Dependent → _____

$I \rightarrow C$

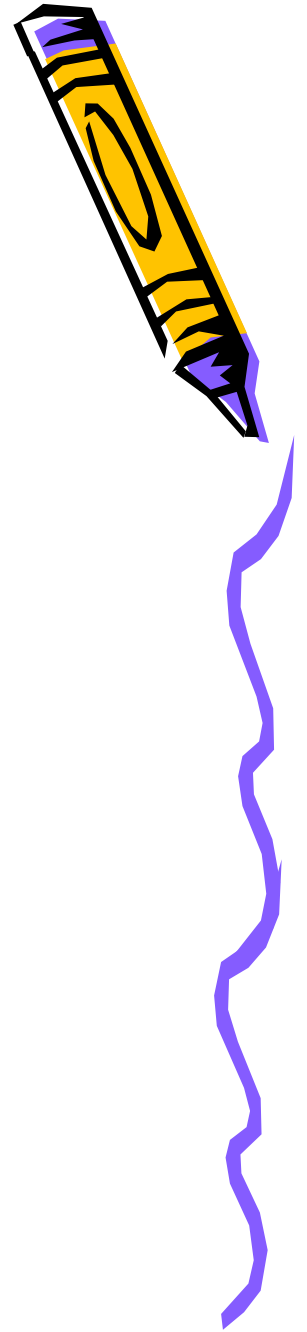
$D \rightarrow M$



$I \rightarrow C$

$D \rightarrow M$

ICDM:



$I \rightarrow C$

$D \rightarrow M$

Example 2

- Douglas is trying to decide which brand to buy for his new basketball. He has 5 basketball brands to choose from, and he wants to test which ball bounces the highest. He plans to measure the height of the bounce.

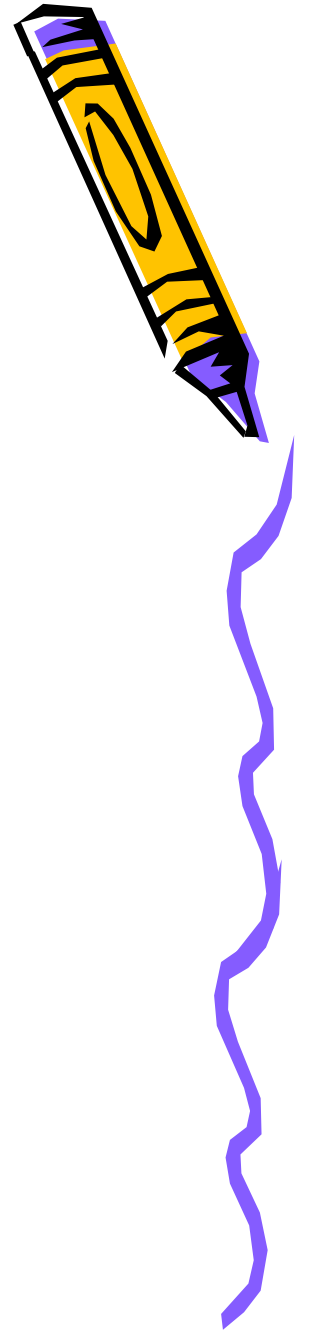


$I \rightarrow C$

$D \rightarrow M$

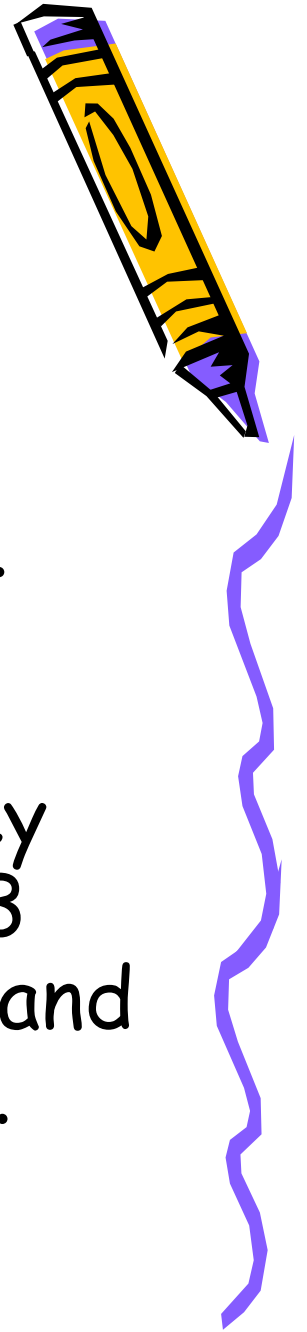
Example 2

- Independent variable (what is changed):
- Dependent variable (what is measured):



Example 3

- Aubree and Ana are growing roses. They want to know if the temperature of water affects the number of roses that grow. So they watered the roses for 2 weeks in 3 different temperatures of water, and at the end they counted the roses.



Example 3

- Independent variable (what is changed):
- Dependent variable (what is measured):

