

## Dialysis Tube Lab

### Problem:

1. What type of transport will occur when a starch solution is placed inside iodine?
2. How will the concentration of starch influence the rate of transport?
3. How will the size of the object influence transport?

Materials: dialysis tubes (3)

Pipettes

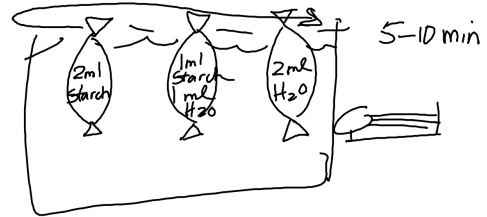
H<sub>2</sub>O

Starch solution

Beaker of iodine

balance

Procedure: *you put in steps (words)*



### Group Data:

	Mass Before	Mass After	Mass Change
100% 2ml starch			
50% 1ml starch 1ml H <sub>2</sub> O			
Control 0% starch 2ml H <sub>2</sub> O			

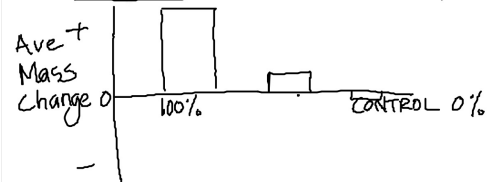
Group	100% Starch	50% Starch	0% Starch
1			
2			
3			
4			
5			
6			
7			
8			
9			
Ave			

## Data continued:

- Observations:

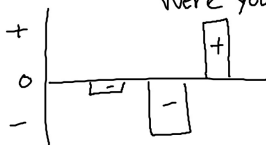
## Data Analysis

- Graph Average Mass change vs. sample (100% vs. 10% vs. Control) for the Class
- Interpret the data : actual  $\hat{=}$  ideal



## Data Analysis :

- Graph: group, class ave. mass change vs. concentration
- Interpret graph
  - ↳ also describe what the expected should have been.
  - Were you close to the expected?



## Conclusion

Answer the 3 problems using both qualitative and quantitative data to support your answers

