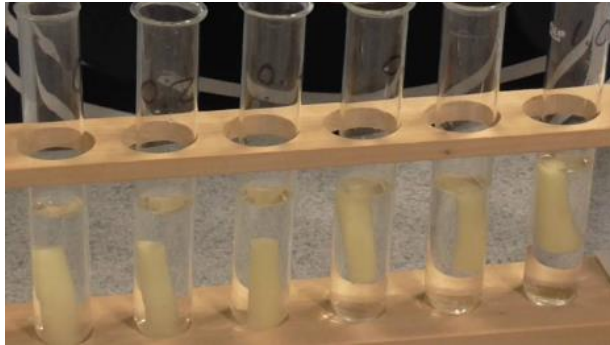




Biology: Required Practical 2



- What is this required practical about?

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- Define the key word you have identified.

.....

.....

- Label the equipment above.

What additional equipment do you need for this? (specifically consider how to measure mass and time)

.....

.....

- What are your variables in this experiment:

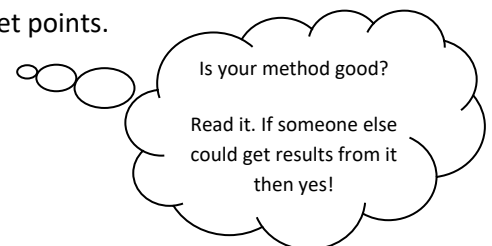
- Independent:

- Dependent::

- Control (x3):

- Think about how you carried out this practical.

Write a logical and comprehensive method, using numbered bullet points.



- A source of error for this practical is zero error.
What is this? How can you avoid it?



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.....

- What other sources of error can you identify?

.....
.....

- How would you present your results for this practical?

.....

- A student's results are shown below. Calculate the difference in mass.

Concentration of squash /%	Start mass of potato /g	End mass of potato /g	Difference in mass of potato /g
0	2.7	2.0	
20	2.7	2.1	
40	2.8	2.3	
60	2.6	2.2	
80	2.7	2.5	
100	2.6	2.6	

- Outline what you would do to find the point at which no osmosis was taking place.
Or
- Draw a graph of the results on separate paper.

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- A student is trying to write a report of their findings. They are confused about some of the key words used to describe their data. Match the key words to the definitions to help them:

Accuracy	If the original experimenter repeats the investigation using same method and equipment and obtains the same results
Fair test	Very little spread about the mean value
Precision	If the investigation is repeated by another person, or by using different equipment or techniques, and the same results are obtained
Repeatable	A measurement that is judged to be close to the true value
Reproducible	Only the independent variable has been allowed to affect the dependent variable