



Pollen Tubes



Aim	To use a microcam to observe pollen grains when placed in 10% sugar solution.		
Prediction*	Explain what do you think will happen and why.		
Apparatus	Lily, microcam, PC and monitor, graticule, mounted needle, slide, cover slip, pipette.		
Method*		Diagram *	
<ol style="list-style-type: none"> Use the _____ to remove some pollen from a lily anther. Place the _____ on a slide. Use a _____ to add a drop of 10% sugar solution to the pollen. Gently lower a _____ over the specimen. Place the slide under the microcam. Capture 6 pictures to show how one of the yeast cells changes over time. The time interval between pictures should be between 2 and 5 mins, depending how quickly changes occur. Import the pictures into MS Word. Resize and organise in a timeline. Print out the completed results. 			
Results*	Image	Time (Minutes)	Description of cells
	1st	0	Round, yellow and slightly spiky.
	2nd		
	3rd		
	4th		
	5th		
	6th		
Conclusion*	<p>What do the results tell you?</p> <p>Was this what you predicted? If not, why not?</p>		
Evaluation*	How is the use of the microcam better than the simple compound microscope in this experiment? Were there any problems?		