

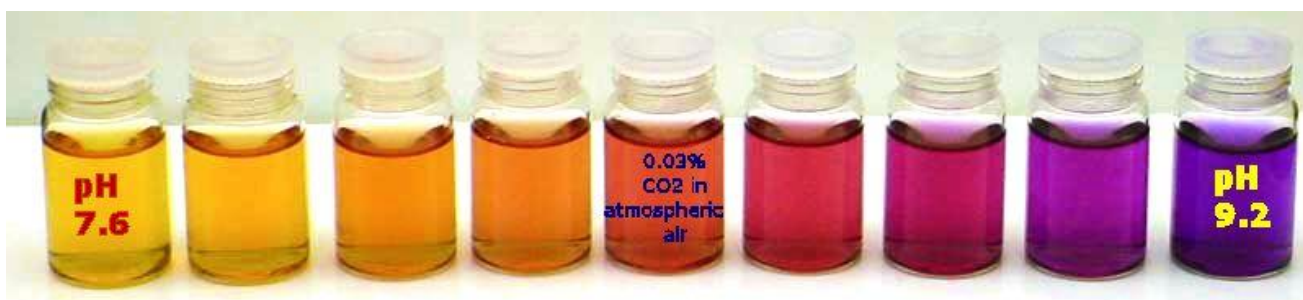


# Photosynthesis

**Remember to use a benchmat and wear safety glasses!**

Collect:	2 x Beakers (100ml)	Class Equipment:	Distilled Water
	1 x Clamp Stand		Algae Suspension
	1 x Open-Ended Syringe		Sodium Alginate
	2 x Universal Bottles		Calcium Chloride
	1 x Stirring Rod		Bicarbonate Indicator
	1 x Strainer		Syringes For Measuring

1. Measure  $5\text{cm}^3$  of algae suspension into one of the beakers.
2. Into the same beaker add  $2.5\text{cm}^3$  sodium alginate. Mix together.
3. Into the second beaker add some calcium chloride. Position this underneath an open-ended syringe (use the clamp stand to position the syringe).
4. Pour the algae mixture into the open-ended syringe and let it drop into the calcium chloride.
5. Drain the calcium chloride using the strainer then rinse the algal balls with distilled water.
6. Count 15 algal balls into each universal bottle.
7. Fill the bottles with bicarbonate indicator and put on lids.
8. Position one bottle in a dark place and the other in a place which receives plenty of sunlight.
9. Analyse your results in the next lesson!



Increasing  $\text{CO}_2$  in Indicator

Less Photosynthesis Took Place

Decreasing  $\text{CO}_2$  in Indicator

More Photosynthesis Took Place