

Core Practical Revision – Triple Biology Paper 2

Core Practical 6: SB6b – Light Intensity & Photosynthesis (p128-129)

Expectations:

- describe how to set up an experiment into the effect of light intensity on photosynthesis.
- state the use/role of hydrogencarbonate indicator.
- explain how colour changes in hydrogencarbonate indicator tell you if photosynthesis has happened.
- calculate the rate of photosynthesis from the pH change of hydrogencarbonate indicator.

Core practical video =

<https://www.youtube.com/watch?v=18931Kc08AQ>

Pupil activities:

1. Watch the core practical video.
2. Record the method for measuring the effect of light intensity on photosynthesis. There is a method on p128 of the textbook you could use.
3. Here is some data collected by a Y11 group:

Distance (cm)	pH at start	pH at end	Rate of photosynthesis
10	8.2	9.6	
20	8.2	8.8	
40	8.2	8.2	

Calculate the rate of photosynthesis if the experiment ran for 2 hours.

4. Answer questions 1,3,4 and 5 on p129 of the GCSE Biology textbook.

Core Practical 8: SB8c – Quadrats and Transects (p182-183)

Expectations:

- you can describe a detailed method to explain how to use a belt transect to sample plant species.
- you can describe how to use random sampling to estimate the abundance of a plant species in 1 area.
- explain how the change in an abiotic factor affects the distribution of a plant species.

Core practical video =

https://www.youtube.com/watch?v=8PPrE2_5oU4

Pupil activities:

1. Record a method to explain how to use a belt transect to sample species from p182.
2. Watch the core practical video.
3. Record a detailed method on how to use random sampling to estimate abundance from the video.
4. The table below shows the number of dandelions sampled at random intervals across a 50m² field.

Quadrat 1	4	Quadrat 3	9	Quadrat 5	11
Quadrat 2	1	Quadrat 4	4	Quadrat 6	18

Estimate the total number of dandelions.

5. Answer questions 2,3,5 and 6 p183 of the GCSE Biology textbook.

Core Practical 7: SB7e – Respiration Rates (p172-173)

Expectations:

- you can describe how to set up a respirometer to measure the rate of aerobic respiration.
- you can state the role of soda lime inside the respirometer.
- explain how distance travelled by the coloured liquid shows the rate of respiration.

Core practical video =

<https://www.youtube.com/watch?v=iPbUcYkf-1k>

Pupil activities:

1. Watch the core practical video.
2. Whilst you are watching, record a brief method for the experiment (you can pause the video to do this with). Alternatively there is a method on p172 of the textbook.
3. Why is it important to allow the organisms to acclimatise for 5 minutes before starting the respirometer readings?
4. The table below shows results at 2 temperatures:

Temp (°C)	Distance travelled by liquid (mm)	Volume of O ₂ respired (mm ³)
10	6	
25	27	

Calculate the volume of oxygen (O₂) respired if the tube diameter is 2mm. Use volume of a cylinder!

5. Answer questions 1,2,5 and 6 on p173 of the GCSE Biology textbook.

Don't forget you also need to revisit the Topic 1 core practical's as they can appear in both Paper 1 and Paper 2.

They are:

- > SB1b – Microscopes (p6-7)
- > SB1f – Testing for Nutrients (p16-17)
- > SB1h – Effect of pH on Enzymes (p22-23)
- > SB1i – Osmosis in Potatoes (p26-27)



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