

# Core Practical Revision – Triple Biology Paper 1

## Core Practical 1: SB1b – Microscopes (p6-7)

### Expectations:

- you will be able to describe how to prepare a slide of animal or plant tissue
- explain how to use the focussing wheels on a microscope to gain a clear image
- carry out magnification calculations using this equation:  

$$\text{magnification} = \frac{\text{size of image}}{\text{actual size of specimen}}$$

### Core practical video =

<https://www.youtube.com/watch?v=iglv2tnt7eCY>

### Pupil activities:

1. Watch the core practical video.
2. Record the method for producing a slide with cheek cells (from 3:58 on the video).
3. Record the method for producing a slide with onion epidermis cells (from 6:00 on the video).
4. Using information from the video, record the job of the coarse focussing/adjusting wheel and fine focussing/adjusting wheel.
5. Answer questions 2,4,6 and 7 on p7 of the GCSE Biology textbook.

## Core Practical 3: SB1b – Effect of pH on Enzymes (p22-23)

### Expectations:

- you can describe a detailed method to investigate the impact of pH on enzymes.
- you can identify the optimum pH for an enzyme (the pH it works fastest at) from data/graphs.

### Core practical video =

<https://www.youtube.com/watch?v=atrh/cilidrmw/g>

### Pupil activities:

1. Watch the core practical video.
2. Name the enzyme being used in this experiment, and what it digests.
3. Record a detailed method (including specific volumes) from the video.
4. Here is some data collected by a Y9 group when they did this experiment.

pH of solution	Time to digest starch (s)
4	543
7	258
10	491

Identify the optimum pH for the amylase used by the Year 9s. Explain your choice.

5. Answer questions 1,2,4 and 6 on p23 of the GCSE Biology textbook.

## Core Practical 2: SB1d – Testing for Nutrients (p16-17)

### Expectations:

- you can correctly describe what nutrients iodine, benedict's solution, biuret solution and ethanol are used to test for.
- explain what a positive and negative result is for each of these chemicals.
- describe the method used to test a food with each of these chemicals.

### Core practical video =

<https://www.youtube.com/watch?v=AFU0RkY3m1g>

### Pupil activities:

1. Watch the core practical video.
2. Whilst you are watching, record a brief method for each chemical that is used to test with. (You can pause the video to do this with). Alternatively there are methods on p14 of the textbook.
3. Write out and complete the following table:

Chemical	Nutrient tested for	Positive result	Negative result
Iodine			
Benedict's			
Biuret			
Ethanol			

4. Answer questions 5,6 and 7 on p17 of the GCSE Biology textbook.

## Core Practical 4: SB1i – Osmosis in Potatoes (p26-27)

### Expectations:

- you can describe a detailed method to investigate the effect of osmosis on plant tissue, e.g. potato.
- calculate the percentage change for plant tissue in different solutions. The equation for this is:  

$$\text{percentage change} = \frac{\text{change in mass}}{\text{starting mass}} \times 100$$
- explain the changes in mass in terms of osmosis.

### Core practical video =

<https://www.youtube.com/watch?v=rN76LU2onmw>

### Pupil activities:

1. Watch the core practical video.
2. Record a detailed method from the video.
3. Complete the percentage change in mass column for these results:

% sucrose	Start mass (g)	End mass (g)	Change in mass (g)	% change
0	2.87	3.64	+0.77	
25	2.65	2.65	0.00	
50	2.71	2.37	-0.34	

4. Explain why  
 (a) The potato cylinder in 0% gained mass.  
 (b) The potato cylinder in 50% lost mass.  
 Use this video to assist your explanation:  
<https://www.youtube.com/watch?v=H0GpK58bNw>

# Core Science Papers Edexcel

**Chao Zhang**



## **Core Science Papers Edexcel:**

### **Edexcel AS Chemistry Student Unit Guide New Edition: Unit 1 The Core Principles of Chemistry** Rod

Beavon, George Facer, 2012-05-18 Written by a senior examiner Rod Beavon and revised by George Facer this Edexcel AS Chemistry Student Unit Guide is the essential study companion for Unit 1 The Core Principles of Chemistry This full colour book includes all you need to know to prepare for your unit exam Clear guidance on the content of the unit with topic summaries knowledge check questions and a quick reference index Examiner s advice throughout so you will know what to expect in the exam and will be able to demonstrate the skills required Exam style questions with graded student responses so you can see clearly what is required to get a better grade Edexcel AS Chemistry Student Unit Guide: Unit 2 Application of Core Principles Rod Beavon, 2012-02-10

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**Edexcel AS Chemistry Student Unit Guide New Edition: Unit 2**

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**GCSE Core Science**

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has had to be reprinted three times so it clearly fulfilled a need and I personally hope that it lived up to what I wrote in its Introduction. The Handbook thus attempts not merely to present a description of the international state of the field but also to offer synthetic and reflective overviews on the different directions being taken by the field on the gaps existing in our present knowledge on the current problems being faced and on the future possibilities for development Bishop et al 1996. Since that time there has been even more activity in our field and now seems a good time to take stock again to reflect on what has happened since 1995 and to create a second Handbook with the same overall goals.



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