

Make sure you can write definitions for these key terms.
 Cells, nucleus, cytoplasm, cell membrane, cell wall, chloroplast, vacuole, mitochondria, enzymes, denatured, osmosis, diffusion, active transport

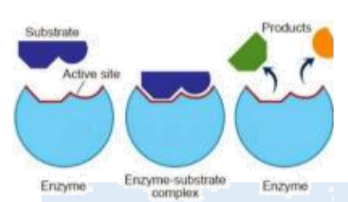
Core practical: Osmosis and potato
Investigate osmosis in potatoes

Revision
Retrieval, keyword definitions and equation practice.

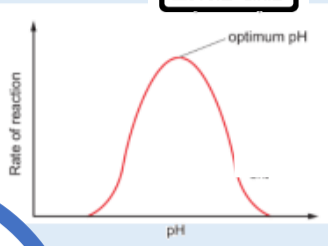


Final assessment
★
Review of learning

Apply:
 SB2 Mitosis
 SB2 Growth in animal and plant cells
 SB2 Stem cells
 SB3 Meiosis
 SB6 Plant structures
 SB8 Efficient transport and exchange
 +16 Cell structure and function



Transporting substances
Diffusion, osmosis and active transport



Core practical: pH and enzymes
Investigate the effect of pH on enzyme activity

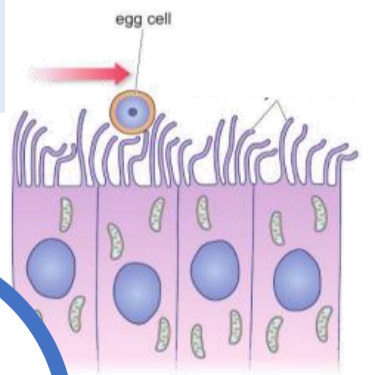
Enzyme activity
The factors that affect enzyme activity

Enzyme action
Enzymes are fussy

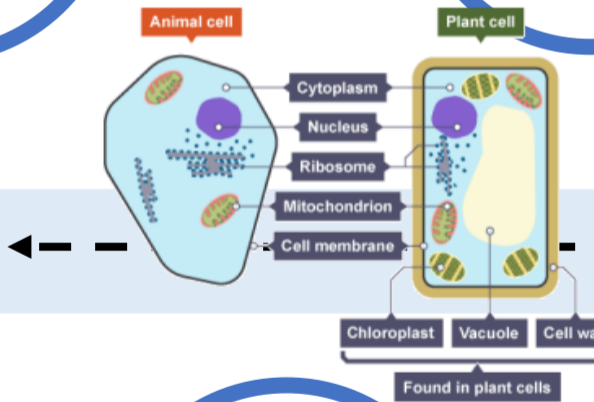
Core practical: Testing foods
Higher tier only
Investigate the use of chemical reagents to identify starch, reducing sugars, proteins and fats

Enzymes and nutrition
What are enzymes and why are they important?

Testing foods
Higher tier only Which tests are used to identify different food groups? Using a calorimeter to measure energy stored in food



Inside bacteria
Comparing eukaryotic and prokaryotic cells

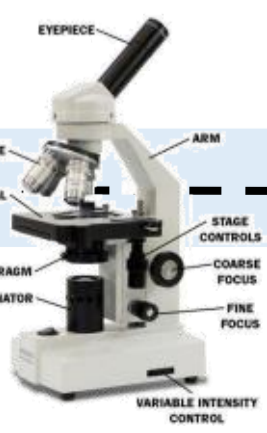


Specialised cells
Describing the adaptations of specialised cells

Plant and animal cells
Comparing the structure and function of the sub-cellular parts of animals and plant cells

Core practical: Using microscopes
Investigate biological specimens using microscopes, including magnification calculations and labelled scientific drawings from observations

What is the job of the mitochondria / chloroplasts?



LESSON 1

Microscopes
Comparing light and electron microscopes, and using magnification calculations

Retrieve:
 B1.1 Observing cells
 B1.2 Plant and animal cells
 B1.3 specialised cells
 B1.4 Movement of substances
 B2.1 Nutrients
 B2.2 Food tests
 B2.5 bacteria & enzymes

