

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

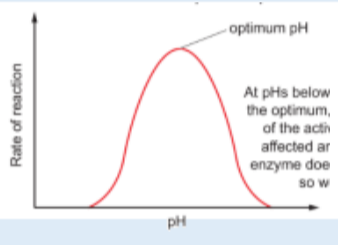
Apply:
 CB2 Mitosis
 CB2 Growth in animal and plant cells
 CB2 Stem cells
 CB3 Meiosis
 CB6 Plant structures
 CB8 Efficient transport and exchange
 +16 Cell structure and function

Transporting substances
Diffusion, osmosis and active transport

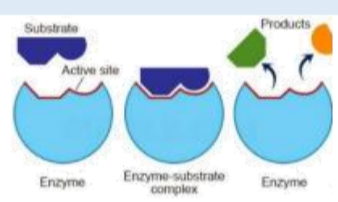
Core practical: pH and enzymes
Investigate the effect of pH on enzyme activity

Enzyme activity
The factors that affect enzyme activity

Explain why enzymes do not work as well at high temperatures.

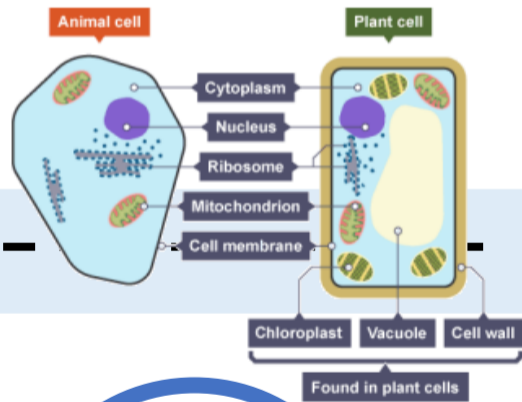


Enzyme action
Enzymes are fussy

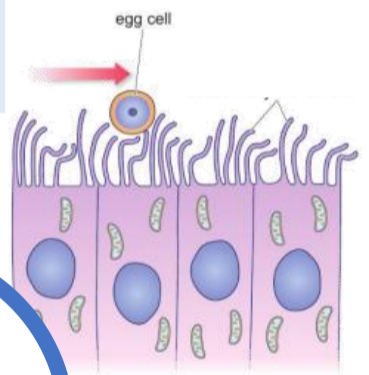


Enzymes and nutrition
What are enzymes and why are they important?

Inside bacteria
Comparing eukaryotic and prokaryotic cells



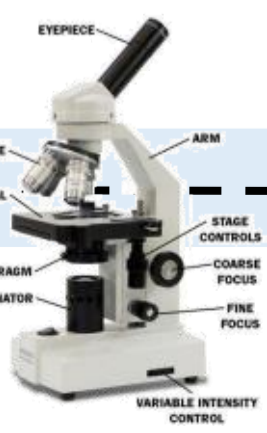
Specialised cells
Describing the adaptations of specialised cells



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?

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



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

