

## 1.1 - Cells

- All living things are made up of cells.
- Plant & animal cells are examples of eukaryotic cells.
- A bacteria cell is an example of a prokaryotic cell.

## 1.2 - Specialised Cells

### Sperm Cell Adaptations

- The long tail enables sperm cells to swim.
- Mitochondria in the mid-section provide energy for the sperm cell to swim a long distance.
- The acrosome consists of enzymes. These enzymes digest the membrane of the egg cell.

## 1.3 - Microscopy

- There are 2 types of microscope:
  1. Light microscope
  2. Electron microscope
- Microscopes use lenses to magnify images.

## 1.4 - More Microscopy

- $\times 10$  means lens magnification of 10.
- Specimen: A sample that is examined under a microscope.

# Key Concepts in Biology

## Section 1

## 1.5 - Enzymes

- An enzyme is a biological catalyst made from protein.
- Enzymes only work on one substrate at a time.

## 1.6 - More Enzymes

### Factors that Affect Enzymes Rate of Reaction

Temperature  
pH  
Substrate concentration

## 1.7 - Enzymes Breakdown Synthesis

- Carbohydrates are synthesized (made) from simple sugars.
- Glycogen are synthesized (made) from glucose.  
\*N.B - Glycogen is an energy store (storage molecule) in animals.
- Proteins are synthesized (made) from amino acids.
- Lipids are synthesized (made) from fatty acids and glycerol.

# Key Concepts Biology Study Guide

**Cybellium**



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