

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

# Key Concepts Biology Study Guide

**David E. Sadava, Gordon H.  
Orians, Craig Heller, William K. Purves**



## **Key Concepts Biology Study Guide:**

*Life: The Science of Biology Study Guide* William K. Purves, Edward Dzialowski, Lindsay Goodloe, Betty McGuire, Nancy Guild, Paula Mabee, 2003-12-26 New edition of a text presenting underlying concepts and showing their relevance to medical agricultural and environmental issues Seven chapters discuss the cell information and heredity evolutionary process the evolution of diversity the biology of flowering plants and of animals and ecology and biogeography Topics are linked by themes such as evolution the experimental foundations of knowledge the flow of energy in the living world the application and influence of molecular techniques and human health considerations Includes a CD ROM which covers some of the subject matter and introduces and illustrates 1 700 plus key terms and concepts Annotation copyrighted by Book News Inc Portland OR

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