

Diffusion

Tick the box to answer the question.

	True	False
Increasing the surface area decreases the rate of diffusion		
Particles move randomly		
Net movement of particles is from higher to lower concentration		
Increasing the temperature will increase the rate of diffusion		
The steeper the concentration gradient the slower the rate of diffusion		
Particles move up a concentration gradient		
The shorter the distance the particle has to move, the faster the rate of diffusion		

Name one example of where diffusion is occurring in humans and plants.

Humans: _____

Plants: _____

B2.1 - Supplying the Cell - Triple Biology Revision Sheet

Osmosis

Read the table right. Which row describe osmosis?

	Requires energy	Movement down a concentration gradient	Substance(s) moved
A	Yes	No	Water and glucose
B	No	No	Water only
C	Yes	Yes	Water and glucose
D	No	Yes	Water only

A student investigated the effect of sugar solution concentration on pieces of potato.

This is the method used.

1. Cut three pieces of potato to the same length.
2. Dry each piece on a paper towel.
3. Weigh each piece.
4. Place potato in different concentration sugar solutions.
5. Leave all three pieces for 2 hours.
6. Remove the three pieces of potato from the solutions.
7. Dry each piece on a paper towel.
8. Measure the length and mass of each piece of potato.

What two changes would you expect in tube A after 2 hours? _____

Why did they dry each piece of potato before weighing? _____

The potato in tube B did not change, give one conclusion from this observation? _____

Active Transport

This paragraph is about moving substances by active transport. Complete the paragraph using the words from the box.

low	mitochondria	energy	high
	respiration	ATP	

Active transport allows movement of substances from areas of _____ concentration to areas of _____ concentration.

It requires the breakdown of _____ to provide the _____ for active transport.

This is provided during cell _____.

Cells that carry out lots of active transport will usually have many _____.

Name one example of where active transport is used in humans and plants.

Humans: _____

Plants: _____

Meiosis

Meiosis is the process by which body cells divide. Each cell divides to produce two daughter cells, which are genetically identical to each other.

A cell cycle has four stages shown in the numbered images on the left. Label the images using the following names.

DNA replication **movement of chromosomes**
cytokinesis **growth of daughter cells**

Number the following sentences to describe the process of mitosis. The first one has been done for you.

	Chromosomes align across the centre of the cell
	Nuclear membranes form
1	A cell grows in size and mass and chromosomes are replicated
	One copy of each chromosome moves to opposite ends of the cell
	The cell membrane and cytoplasm divide
	The nuclear membrane breaks down

Cell Differentiation

During the development of a multicellular organism, cells differentiate. What does this mean?

Match the specialised cell with the correct adaptation and function.

Cell	Adaptation	Function
Ciliated cell	Can expand	Move mucus for haemoglobin molecules
Palisade cell	Contains many chloroplasts	photosynthesis
Sperm cell	Has the structure in the surface	Swimming around
Fat cell	Contains enzymes in acrosome	Fat storage
Red blood cell	No nucleus	Breaks down outer layer of stem

Label the sperm cell adaptations and explain the reason for each one.

Stem Cells

This paragraph is about stem cells in animals. Use the words from the box to complete the paragraph.

stem cells	are	adult	repair
undifferentiated		differentiation	

Stem cells in animals are _____. They can undergo the process of _____ to become specialised to carry out a particular role. There are two main types of stem cell in animals, embryonic stem cells and _____ stem cells. Stem cells in mature animals are restricted in what type of cell they can become.

Embryonic stem cells can become _____ cell in the organism. Embryonic stem cells can divide through the process of _____ to make a whole organism.

Fully developed animals contain stem cells for their entire lives to help them _____ damaged tissues.

The figure left shows one area where stem cells can be found in a plant. What is this called? _____

Name one other location in a plant where stem cells can be found? _____

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