

Cumbernauld Academy

CfE Science

Biology 2

Cells

Name:- _____

Class:- _____

Teacher:- _____

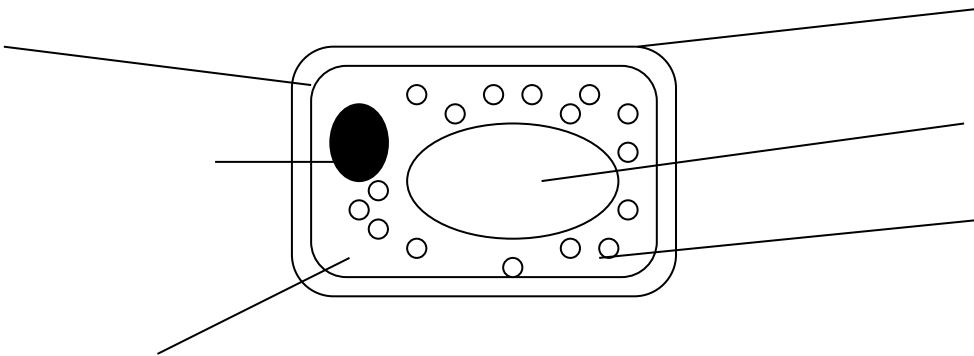
Homework

Exercise 1 - / 20

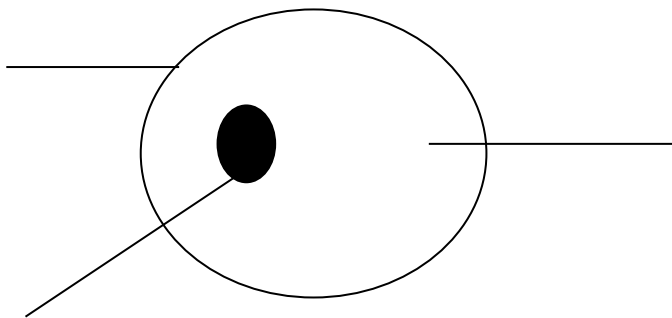
Exercise 2 - / 20

1. All living things are made up of cells. /20
Label the diagrams of the animal and plant cell below.

Plant cell



Animal cell



(5)

2. Give three differences between these cells

(3)

- 3.

Complete the table overleaf

Part of cell	What it does
Nucleus	
Membrane	
Cytoplasm	
Cell Wall	
Vacuole	
Chloroplast	

(6)

4.

There are many different kinds of animal and plant cells.
Match the cells below with the description of what they do

A) Sperm Cell B) Nerve Cell

Cell type	What they do
	A tail to help it move quickly through liquids
	Long extensions to carry messages long distances.

(2)

5.

Fill in the blanks

A microscope has an eyepiece lens and 3 _____ lenses.

A _____ is a small square of glass put on a wet mount slide.

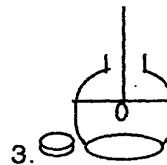
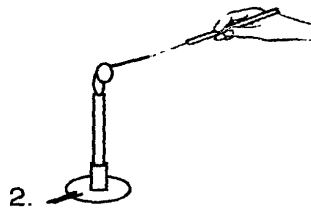
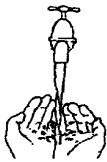
The _____ is the part of the microscope the slide sits on.

A _____ is used to make the cell contents more visible.

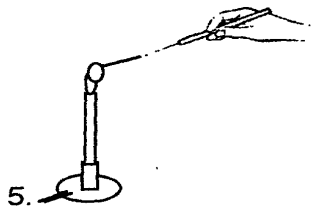
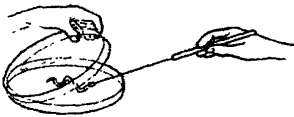
1. The Sterile Technique.

1. Explain using the diagrams why each step is necessary to stop unwanted microbes growing.

1.



4.



6:



Step

1 _____

Step

2 _____

Step

3 _____

Step

4 _____

Step

5 _____

Step

6 _____

2. Antibiotics are chemicals produced by some fungi (which are a type of microbe). These chemicals stop bacteria reproducing. Some antibiotics destroy a wide range of bacteria eg. penicillin destroys many different microbes. Other antibiotics only destroy certain bacteria.

Answer the following questions.

a. What do antibiotics do?

_____ (1)

b. What type of microbe can produce antibiotics?

_____ (1)

c. Name an antibiotic which acts on a wide range of microbes?

_____ (1)

3. Complete the following paragraph about the dangers of letting a harmful microbe escape.

Wordbank

poisoning

multiply

health

harmful

bacterium

sick

microbe

thousands

If a harmful escapes there is a danger that it will..... very quickly. If only one..... landed on butter there would be..... six hours later. Harmful microbes can cause people to be very through food It is very important to protect people's by trying to stop..... microbes from escaping.

(2)

4. *E. coli* is a type of bacteria which may cause food poisoning; it doubles in number every 20 minutes. If a piece of meat is found to have 500 *E. coli* bacteria on it how many bacteria will be present after 1 hour?

(2)

5. Describe how you set up a slide to look at your cheek cells. (4)

6. Give three possible ways to stop fungus growing. (3)

