

Name:
Science Class:
Teacher:
Hand in day:

Y9 Science
Term 3: Homework Booklet
Biology

	Hand in Date	Parents Signature
GCSE Transition Topic		
Homework 1		
Homework 2		
Homework 3		
Homework 4		

GCSE Topic: 1. Cell Biology

Homework 1

<https://www.my-gcse-science.com/aqa/biology/eukaryotic-and-prokaryotic-cells/>

Watch the video '**Eukaryotic and Prokaryotic Cells**' then answer the questions below:

Questions

1. List the components of an animal cell.
2. In which part of a cell is the genetic material found?
3. Where does aerobic respiration take place in a cell?
4. Where are proteins made in a cell?
5. Which extra features do plant cells have?
6. Which substance are cell walls made of?
7. What is the name of the pigment found in chloroplasts?
8. What is the role of chlorophyll?
9. Are plant cells smaller or bigger than animal cells?
10. Animal and plant cells are eukaryotic cells. What does this mean?

GCSE Topic: 1. Cell Biology

Homework 2

<https://www.my-gcse-science.com/aqa/biology/specialised-cells/>

Watch the video '**Specialised Cells**' then answer the questions below:

Questions

1. List the features that most animal cells will have.
2. What is the role of a nerve cell?
3. What is the role of dendrites on a nerve cell?
4. What is the role of a sperm cell?
5. What two adaptations does a sperm cell have to help it swim to an egg cell?
6. What is the role of root hair cells?
7. How are root hair cells adapted to increase absorption?
8. What do xylem cells transport in a plant?
9. What is the role of lignin in xylem tubes?
10. What do phloem cells transport in a plant?

GCSE Topic: 2. Organisation

Homework 3

<https://www.my-gcse-science.com/aqa/biology/the-circulatory-system/>

Watch the video '**The Circulatory System**' then answer the questions below:

Questions

1. What is the circulatory system made up of?
2. What are the four components of the blood?
3. Which type of blood cells carries oxygen?
4. Why do red blood cells not have a nucleus?
5. Name two substances that can be carried in the plasma.
6. What is meant by a double circulatory system?
7. What are the upper most chambers of the heart called?
8. What are the purpose of valves in the heart?
9. Which blood vessel takes blood away from the heart to the lungs?
10. Which blood vessel takes blood away from the heart to the body?

GCSE Topic: 4. Bioenergetics

Homework 4

<https://www.my-gcse-science.com/aqa/biology/photosynthesis/>

Watch the video '**Photosynthesis**' then answer the questions below:

Questions

1. What is the word equation for photosynthesis?
2. What is the chemical symbol for carbon dioxide?
3. How does carbon dioxide enter the plant?
4. How does water enter the plant?
5. What is the chemical symbol for glucose?
6. Oxygen is a waste product of photosynthesis. How does it leave a plant?
7. Photosynthesis is an endothermic reaction. It has to take in energy. Where does this energy come from?
8. What is the name of the green pigment in plant cells that is able to absorb this energy?
9. In which part of a plant cell is chlorophyll found?
10. The glucose made in photosynthesis can be used to make cellulose. What does plant use cellulose for?