

### **Purpose of task:**

Having decided to take the A level biology course next year there is an expectation that a certain amount of pre-reading and preparation will occur over the summer holidays. This will allow a focus during lessons on application of knowledge and ironing out misconceptions. To this end you are expected to attempt the following tasks

### **Task 1:**

1. Using an unlabelled animal cell diagram research and label each of the cell contents. Use the OCR Biology A H420 specification to find the level of detail needed to complete the task.
2. Provide a function for each organelle.

### **Task 2:**

Find an image of a plant cell showing a similar level of complexity, label the organelles and explain the function of any additional organelles present in a plant cell that you have not already covered in task 2.

### **Suggested reading for A level Biology**

#### **Books:**

##### **Richard Dawkins:**

The Selfish Gene  
The Blind Watchmaker.  
Climbing Mount Improbable  
The Ancestor's Tale

##### **Steve Jones:**

Y: The Descent of Men  
In the Blood: God, Genes and Destiny  
Almost Like a Whale: The 'Origin of Species'  
Updated  
The Language of the genes

##### **Matt Ridley**

Genome: The Autobiography of a Species in 23 Chapters  
The Language of Genes

##### **James Watson:**

DNA: The Secret of Life  
The Double Helix: Personal Account of the Discovery of the Structure of DNA

##### **Charles Darwin:** The origin of species

##### **Bill Bryson:** A Short History of Nearly Everything

##### **Oliver Sachs:** The Man Who Mistook His Wife For A Hat

##### **Nessa Carey**

The epigenetics revolution  
Junk DNA

#### **Websites:**

1. <http://www.accessexcellence.org/RC/VL/GG>  
– A web site showing illustrations of many processes of biotechnology
2. <http://www.dnai.org/a/index.html> – Explore the genetic code
3. <http://nobelprize.org> – Details of the history of the best scientific discoveries
4. <http://nature.com> – The site of the scientific journal
5. <http://www.bmj.com> – The website of the British Medical Journal

### **Deadline for task:**

First Biology lesson back after Summer holidays