

A level Biology. Mrs Ford

The first topic we will be studying in September is **Biological Molecules**. One of these molecules is **Carbohydrates**. Please can you watch the following clips and answer the questions which accompany each clip. This will really help prepare you for the beginning of the course.

Carbohydrates

1. Monosaccharides

<https://www.youtube.com/watch?v=xNP2jrm2iMo>

1. Which elements do carbohydrates contain?
2. What type of sugar is glucose; and why is it known as this?
3. Draw the structure of glucose and try and remember it.
4. What does the term monosaccharide mean?
5. List some monosaccharide sugars.
6. Why is glucose soluble in water?
7. Draw the structure of ribose and try and remember it.

2 Alpha and Beta glucose

<https://www.youtube.com/watch?v=8GDxf2LrrUg>

1. What is an isomer?
2. What are the two isomers of glucose called?
3. Draw the two isomers and try and remember the difference.

3. Disaccharides

<https://www.youtube.com/watch?v=a8XytwaLLq8>

1. Explain how disaccharides form.
2. What type of bond is formed when two alpha glucose molecules join and what molecule is released?
3. What type of reaction is this known as?
4. How can a disaccharide sugar be broken down to two monosaccharide sugars, and what is this reaction called?