BIOLOGICAL MOLECULES TRANSITION WORK

One of the first topics is called Biological molecules. It is all about proteins, carbohydrates, lipids, DNA and a few new things. There is actually quite a bit of content that you have already learnt. You need to be able to answer the following questions (all answers are GCSE level). A couple maybe chemistry and the rest come from all parts of the GCSE course. Learn them all carefully. **Questions in bold have not been covered on the Combined Science course so you will need to research these.**

Some of the answers are longer than others – complete the table and then print the whole lot off.

You can ask Your Biology teacher any of the questions that you are not sure about.

What is a polymer?	
What is a monomer?	
What is the formula for glucose?	
What is glucose stored as in plants?	
What is glucose stored as in animals in the liver and muscles?	
What is Benedict's reagent for?	
How do you conduct a Benedict's test?	
What are the positive and negative results for a Benedict's test?	
Why might you get a variety of different colours for a Benedict's test if you tested a range of solutions?	
How do you test for starch?	
What do you know about starch?	
What is cellulose for?	
Where do you find glycogen? What does it do?	
What are lipids digested into by the enzyme lipase?	

How do you test for lipids?	
What type of molecule are proteins made out of?	
How do you test for proteins?	
List any functions of proteins that you know.	
Describe how an enzyme works.	
How does temperature affect enzyme action?	
How does pH affect enzyme action?	
What does DNA stand for?	
Describe the shape of DNA.	
What is a nucleotide?	
What are the four different bases?	
What is meant by complementary base pairing?	