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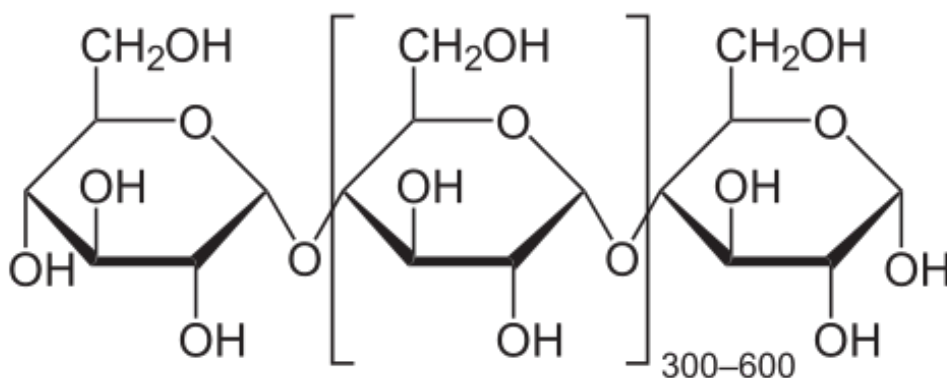
Class:



IGCSE BIOLOGY EDEXCEL 9-1

CHAPTER WORKBOOK

Biological Molecules- Carbohydrates, Proteins and Lipids



Carbohydrates, Proteins, Lipids

1. List the elements that make up the macromolecules.

Macromolecule	Elements
Carbohydrate	<ul style="list-style-type: none">•••
Protein	<ul style="list-style-type: none">••••
Lipid	<ul style="list-style-type: none">•••



2.

a) Draw annotated diagrams to summarise the structure of the macromolecules.

<p><i>A section of starch (a carbohydrate):</i></p>	<p><i>A section of a protein:</i></p>
<p><i>A triglyceride (lipid)</i></p>	

b) Compare the structure of glucose and starch.

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c) Describe the similarities in the structure and function of starch and glycogen.

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Testing for Biological Molecules

Complete the table to summarise the procedures for testing for the presence of the biological molecules.

Biological Molecule	Test/Reagent	Positive result
Protein		
Safe Procedure:		
Reducing sugar (e.g. glucose)		
Safe Procedure:		
		White emulsion
Safe Procedure:		
	Iodine	
Safe Procedure:		

