AQA GCSE Chemistry

C11 Polymers

Name _____ Class _____ Date _____

Lesson	Aiming for 4		Aiming for 6		Aiming for 8	
C11.1 Addition polymerisation	I can define a monomer and polymer.	☐	I can describe how monomers become polymers.	☐	I can explain why monomers for addition polymers must be unsaturated.	☐
	I can state some uses of poly(ethene) and poly(propene).	☐	I can draw the monomer for an addition polymer when the structure of the polymer is given.	☐	I can explain the process of addition polymerisation in detail including using balanced symbol equations and the concept of atom economy.	☐
	I can write a word equation for the formation of poly(ethene) and poly(propene).	☐	I can draw an addition polymer structure when the structure of the monomer is given.	☐	I can explain how the repeating unit of a polymer relates to the monomer.	☐
C11.2 Condensation polymerisation			I can describe condensation polymerisation.	☐	I can predict the products of condensation polymerisation.	☐
			I can draw a simplified structure of the monomers for a condensation polymer when the structure of the polymer is given.	☐	I can explain the process of condensation polymerisation in detail, including using equations.	☐
			I can draw a simplified structure of a condensation polymer when the structure of the monomers are given.	☐	I can compare and contrast in detail, giving appropriate examples, the two methods of polymerisation.	☐
C11.3 Natural polymers	I can state an example of a natural polymer.	☐	I can identify the monomer from the structural formula of a polymer.	☐	I can predict the products of condensation polymerisation using natural monomers.	☐
	I can describe the relationship between sugar as a monomer and starch or cellulose as a polymer.	☐	I can describe the structure of an amino acid.	☐	I can explain in detail the process of condensation polymerisation with natural monomers, including using equations.	☐
	I can describe the relationship between amino acids as a monomer and protein as a polymer.	☐		☐	I can explain how amino acids react together in an acid-base reaction.	☐

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C11.4 DNA	I can state that DNA is an example of a natural polymer.	☐	I can describe the main structure of DNA.	☐	I can explain the shape of the DNA polymer.	☐
	I can state what DNA stands for.	☐	I can describe the importance of DNA for living systems.	☐	I can explain how nucleotides form DNA.	☐
	I can name the type of monomers used to make DNA.	☐	I can sketch the shape of a DNA strand.	☐	I can explain the purpose of DNA.	☐