









<p>This half term: Skills, Knowledge and Understanding to be developed:</p> <ul style="list-style-type: none">• Skills (students <u>WILL BE ABLE</u> to by the end of the Learning Programme): develop their analytical skills through using different spectra to identify compounds.• Knowledge (students <u>WILL KNOW</u> by the end of the Learning Programme): how to show the structure of zwitterions and dipeptides.• Understanding (students <u>WILL DEMONSTRATE</u> their understanding) through: applying knowledge learnt to answer examination questions.	<p>Key Terms / Words: recrystallisation, chromatography, zwitterion, amphoteric, polymerisation</p>		
<p>LP 5 – Weeks 1 & 2 Learning Outcomes:</p> <ul style="list-style-type: none">○ Students will know the general formula and classification of α-amino acids.○ Students will understand the amphoteric and zwitterionic nature of amino acids and the effects on melting temperature and solubility.○ Students will know the basic principles of primary, secondary and tertiary protein structure.○ Students will know the essential role of proteins in living systems, for example as enzymes. <p>CDG- Students will apply and demonstrate new knowledge and skills in CDG assessment.</p>	<p>Assessment </p> <p>CDG </p> <p>MARK </p>	<p>Success criteria:</p> <ol style="list-style-type: none">1. Students will be able to draw zwitterions of amino acids and the possible dipeptides formed upon combining amino acids.	<p>Homework LP 5 1/3</p> <ol style="list-style-type: none">1. Revise for CDG on amino acids
<p>LP 5 – Weeks 3 & 4 Learning Outcomes:</p> <ul style="list-style-type: none">○ Students will know how to use high resolution ^1H NMR spectra (alongside the other spectral data specified in 2.8) in the elucidation of structure of organic molecules.○ Students will use I.R. and mass spectra to identify compounds.		<p>Success criteria:</p> <ol style="list-style-type: none">1. Students will be able to use NMR spectra to determine the structure of organic molecules.2. Students will be able to apply their organic knowledge to analysis questions.	<p>Homework LP 5 2/3</p> <ol style="list-style-type: none">1. Complete exam questions on high resolution NMR.
<p>LP 5 – Weeks 5 & 6 Learning Outcomes:</p> <ul style="list-style-type: none">○ Students will practice using different spectroscopic techniques to answer analysis questions.○ CDG- Students will apply and demonstrate new knowledge and skills in CDG assessment.○ Students will practice practical techniques.	<p>Assessment </p> <p>CDG </p> <p>MARK </p>	<p>Success criteria:</p> <ol style="list-style-type: none">1. Students will answer analysis exam style questions.	<p>Homework LP 5 3/3</p> <p>Revise for CDG</p>
<p>LP 5 – Week 7 Learning Outcomes:</p> <ul style="list-style-type: none">○ Students will practice practical techniques.			