

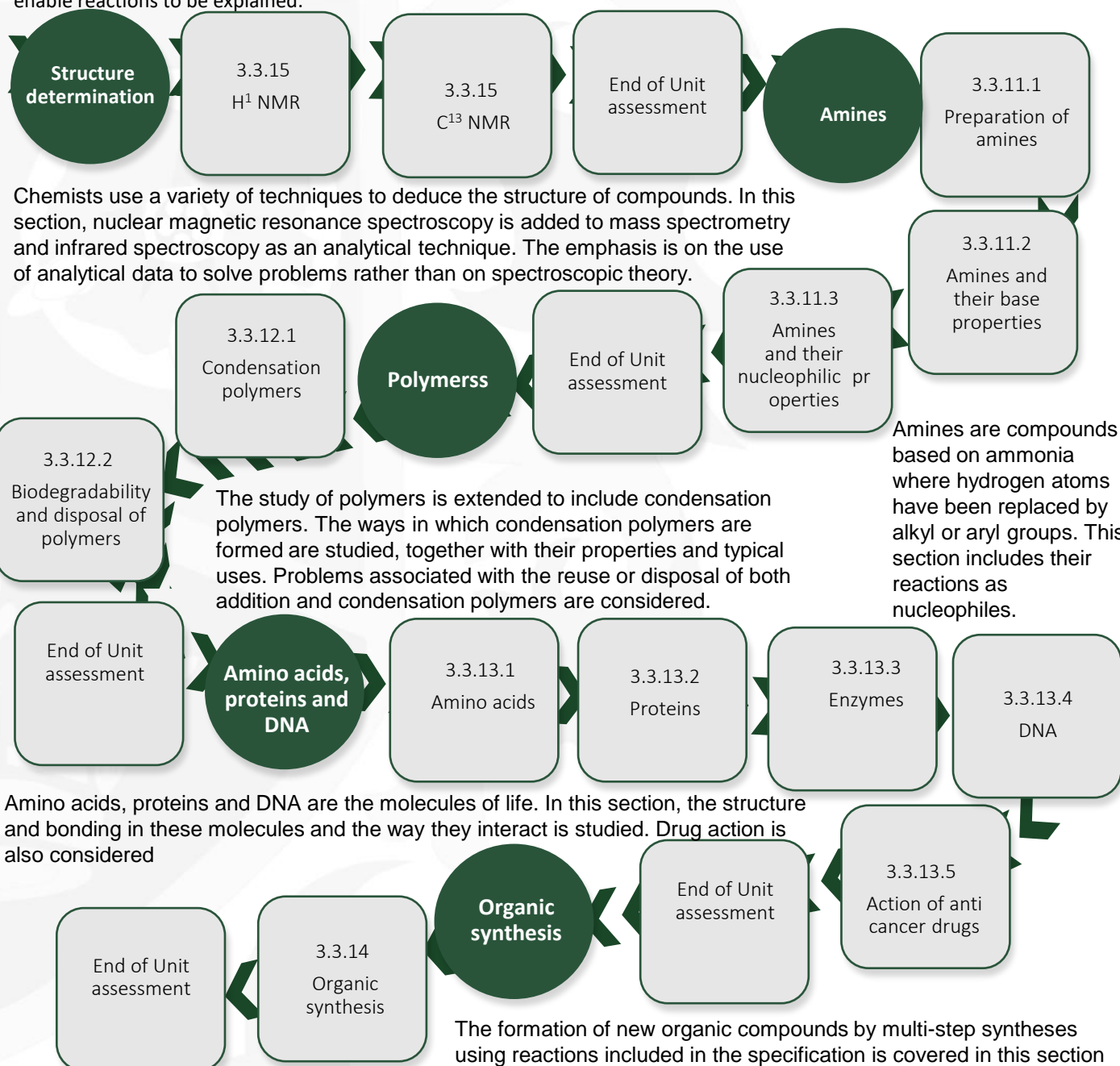
Chemistry

Year 13 Spring Term

Structure determination – NMR; Amines; Polymers; Amino Acids, proteins and DNA; Organic Synthesis

Organic chemistry is the study of the millions of covalent compounds of the element carbon. These structurally diverse compounds vary from naturally occurring petroleum fuels to DNA and the molecules in living systems.

Organic compounds are named using the International Union of Pure and Applied Chemistry (IUPAC) system and the structure or formula of molecules can be represented in various different ways. Organic mechanisms are studied, which enable reactions to be explained.



Amines are compounds based on ammonia where hydrogen atoms have been replaced by alkyl or aryl groups. This section includes their reactions as nucleophiles.

TUDOR HABITS

You will work on self-regulation in completing the required practical work on time and take on feedback when drawing the mechanisms to ensure they are clear and accurate.

VOCABULARY:

Environment, chemical shift, quaternary salts, acylation, polyesters, polyamides, hydrolysis, biodegradable, zwitterion, stereospecificity, base pairs, replication, cisplatin, multistep synthesis.