Barr Beacon School
Curriculum Plan

Triple Chemistry

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
7	Prior to year 10, students study all sciences in a blended approach. The route below is only for those students who select to study the triple science route.					
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10	Atomic Structure and the periodic table	Bonding Structure and the properties of matter	Energy Changes	Quantitative Chemistry	Chemical Changes	Chemical Changes
11	The rate and extent of chemical change	Organic chemistry	Chemical Analysis	Using Resources Revision of Content	Exam preparation	
12	Atomic Structure Amount of Substance	Energetics	Kinetics Chemical Equilibria, Le Chatelier's principle and K_c	Chemical Equilibria, Le Chatelier's principle and K_c Oxidation, Reduction and Redox Reactions	Periodicity Group 2 Group 7	Revision of physical and inorganic chemistry
	Bonding	Bonding. Introduction to Organic Chemistry	Alkanes Halogenoalkanes Alkenes	Alkenes Alcohols	Organic Analysis	Revision of organic chemistry
13	Thermodynamics Rate Equations	K_p for homogenous systems Electrode potentials and electrochemical cells	Acids and bases Properties of period 3 and their oxides Transition metals	Transition metals Reactions of ions in aqueous solution.	Exam Preparation	
	Optical Isomers Aldehydes and Ketones Carboxylic Acids and their derivatives.	Carboxylic Acids and their derivatives. Aromatic Chemistry Amines and Amides	Polymers Amino Acids, Proteins and DNA	Organic Synthesis NMR Chromatography		