ST BERNARD'S HIGH SCHOOL
Year 10 Mathematics Curriculum Map

Revision resources for the assessments for HT1, HT2, HT3, HT4 & End of Year Exams can be found on the St Bernard's VLE.

MathsWatch Login Details	MyMaths Login Details
Username:	**School Username: bernard**
Password:	**School Password: twenty**
	Username:
	Password

GCSE Edexcel Higher Mathematics

Half-Term 1	Lesson 01	**Higher Ch13: Exploring and Applying Probability** - 13.1 Experimental probability
	Lesson 02	**Higher Ch13: Exploring and Applying Probability** - 13.2 Mutually exclusive and exhaustive events - 13.3 Expectation
	Lesson 03	**Higher Ch13: Exploring and Applying Probability** - 13.4 Probability and two-way tables **(15 + 10 + 10 mins) Formative Assessment 01a**
	Lesson 04	**Higher Ch19: Combined Events** - 19.1 Addition rules for outcomes of events - 19.2 Combined events
	Lesson 05	**Higher Ch19: Combined Events** - 19.3 Tree diagrams - 19.4 Independent events
	Lesson 06	**Higher Ch19: Combined Events** - 13.5 Probability and Venn diagrams - 19.5 Conditional probability **(15 + 10 + 10 mins) Formative Assessment 01b**
	Lesson 07	**Higher Ch14: Powers and Standard Form** - 14.1 Powers (indices) - 14.2 Rules for multiplying and dividing powers
	Lesson 08	**Higher Ch14: Powers and Standard Form** - 14.3 Standard form **(30 mins) Pearson Comprehension (Reading) Task**
	Lesson 09	**Higher Ch14: Powers and Standard Form** - 14.3 Standard form (continued)
	Lesson 10	**Higher Ch16: Counting, accuracy, powers and surds** - 16.1 Recurring Decimal to Fraction - 16.2 Estimating powers and roots.
		Y10 HT1 REVISION LESSON
		Summative Assessment 01: Year 10 HT1 HIGHER Assessment Non-Calculator (45-minutes)

Half-Term 2	Lesson 11	**Higher Ch16: Counting, accuracy, powers and surds** - 16.3 Negative and fractional powers
	Lesson 12	**Higher Ch16: Counting, accuracy, powers and surds** - 16.4 Surds
	Lesson 13	**Higher Ch16: Counting, accuracy, powers and surds** - 16.4 Surds (Rationalising the denominator)
	Lesson 14	**Higher Ch16: Counting, accuracy, powers and surds** - 16.5 Limits of accuracy (Bounds)
	Lesson 15	**Higher Ch16: Counting, Accuracy, Powers and Surds** - 16.6 Problems involving limits of accuracy. **(30 mins) Pearson Comprehension (Reading) Task**
	Lesson 16	**Higher Ch16: Counting, accuracy, powers and surds** - 16.7 Choices and outcomes (counting strategies) **(15 + 10 + 10 mins) Formative Assessment 02a**
	Lesson 17	**Higher Ch15: Equations and Inequalities** - 15.1 Linear equations (Recap) - 15.6 Linear inequalities
	Lesson 18	**Higher Ch15: Equations and Inequalities** - 15.2 Elimination method for simultaneous equations **(15 + 10 + 10 mins) Formative Assessment 02b**
	Lesson 19	**Higher Ch15: Equations and Inequalities** - 15.4 Balancing coefficients to solve simultaneous equations. - 15.1 Using Simultaneous Equations to solve problems
	Lesson 20	**Higher Ch15: Equations and Inequalities** - Recap of Linear Graphs (sketching and interpreting) - 15.7 Graphical inequalities
	Lesson 21	**Higher Ch15: Equations and Inequalities** - 15.7 Graphical inequalities (continued)
	Lesson 22	**Higher Ch8: Algebraic Manipulation** - 8.8 Changing the subject of a formula
		Y10 HT2 REVISION LESSON
		Summative Assessment 02: Year 10 HT2 HIGHER Assessment Non-Calculator (45-minutes)
	Lesson 23	**Higher Ch8: Algebraic Manipulation**

Half-Term 4

	Lesson	Content
		- 8.1 Basic algebra - 8.2 Factorisation
	Lesson 24	**Higher Ch8: Algebraic Manipulation** - 8.3 Quadratic expansion - 8.4 Expanding squares
	Lesson 25	**Higher Ch8: Algebraic Manipulation** - 8.5 More than two binomials (15 + 10 + 10 mins) Formative Assessment 03a
	Lesson 26	**Higher Ch8: Algebraic Manipulation** - 8.6 Quadratic factorisation
	Lesson 27	**Higher Ch8: Algebraic Manipulation** - 8.6 Quadratic factorisation (continued) - 8.7 Factorising $ax^2 + bx + c$
	Lesson 28	**Higher Ch17: Quadratic Equations** - 17.2 Solving quadratic equations by factorisation
	Lesson 29	**Higher Ch17: Quadratic Equations** - 17.3 Solving quadratic equation using the quadratic formula
	Lesson 30	**Higher Ch17: Quadratic Equations** - 17.1 Plotting quadratic graphs (15 + 10 + 10 mins) Formative Assessment 03b:
	Lesson 31	**Higher Ch17: Quadratic Equations** - 17.5 The significant points of a quadratic curve (30 mins) Pearson Comprehension (Reading) Task
	Lesson 32	**Higher Ch17: Quadratic Equations** - Sketching quadratic graphs (not-plotting) - 17.9 Quadratic inequalities
	Lesson 33	**Higher Ch18 Sampling and more complex diagrams** - Capture Recapture (replacing sampling on GCSE)
		Y10 HT3 REVISION Summative Assessment 03: Year 10 HT3 HIGHER Assessment Non-Calculator (45-minutes) **Higher Ch3: Statistical Diagrams and Averages** - 3.2 Statistical Measures (Recap from Y9)
Half-Term 4	Lesson 34	**Higher Ch3: Statistical Diagrams and Averages** - 3.3 Scatter Diagrams (Recap from Y9) (30 mins) Pearson Comprehension (Reading) Task
	Lesson 35	**Higher Ch18 Sampling and more complex diagrams** - 18.2 Frequency Polygons (15 + 10 + 10 mins) Formative Assessment 04a
	Lesson 36	**Higher Ch18 Sampling and more complex diagrams** - 18.3 Cumulative Frequency Graphs
	Lesson 37	**Higher Ch18 Sampling and more complex diagrams** - 18.3 Cumulative Frequency Graphs (continued)
	Lesson 38	**Higher Ch18 Sampling and more complex diagrams** - 18.4 Box Plots (15 + 10 + 10 mins) Formative Assessment 04b
	Lesson 39	**Higher Ch18 Sampling and more complex diagrams** - 18.5 Histograms
	Lesson 40	**Higher Ch20 Properties of Circles** - 20.1 Circle Theorems

Half-Term 5 & 6

	Lesson	Content
		Y10 HT4 REVISION
		Summative Assessment 04: Year 10 HT4 HIGHER Assessment Calculator (45-minutes)
Half-Term 5	Lesson 41	**Higher Ch20 Properties of Circles** - 20.2 Cyclic Quadrilaterals
	Lesson 42	**Higher Ch20 Properties of Circles** - 20.3 Tangents and chords
	Lesson 43	**Higher Ch20 Properties of Circles** - 20.4 Alternate Segment Theorem (30 mins) Pearson Comprehension (Reading) Task
	Lesson 44	**Higher Ch21 Variation** - Direct and Inverse Proportion (without constant of proportionality) (15 + 10 + 10 mins) Formative Assessment 05a
	Lesson 45	**Higher Ch21 Variation** - 21.1 Direct Proportion
	Lesson 46	**Higher Ch21 Variation** - 21.2 Inverse Proportion
	Lesson 47	(15 + 10 + 10 mins) Formative Assessment 05b
	Lesson 48	(15 + 10 + 10 mins) Formative Assessment 06a
	Lesson 49	(15 + 10 + 10 mins) Formative Assessment 06b
Half-Term 6		**REVISION (MOCKS STARTED FOR Y10)**
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		Summative Assessment 05: Year 10 End of Year Exam HIGHER Paper 1 Non-Calculator (90-minutes)
		Summative Assessment 06: Year 10 End of Year Exam HIGHER Paper 2 Calculator (90-minutes)
	Lesson 50	(30 mins) Pearson Comprehension (Reading) Task
	Lesson 51	**Higher Ch17: Quadratic Equations (Part 2)** 17.7 Solving equations, one linear and on non-linear, with graphs
	Lesson 52	**Higher Ch17: Quadratic Equations (Part 2)** 17.8 Solving linear and non-linear simultaneous equations