



THE BIRKENHEAD PARK SCHOOL

Curriculum Plan 2016/2017 – Mathematics

Year	Half Term 1	Half Term 2	Half Term 3	Half Term 4	Half Term 5	Half Term 6
Year 7	<ul style="list-style-type: none"> • Using numbers • Sequences • Perimeter, area and volume 	<ul style="list-style-type: none"> • Decimal numbers • Working with numbers • Statistics 	<ul style="list-style-type: none"> • Algebra • Fractions • Angles 	<ul style="list-style-type: none"> • Coordinates and graphs • Percentages • Probability 	<ul style="list-style-type: none"> • Symmetry • Equations • Interpreting data 	<ul style="list-style-type: none"> • 3D shapes • Ratio
Year 8	<ul style="list-style-type: none"> • Working with numbers • Geometry • Probability 	<ul style="list-style-type: none"> • Percentages • Congruent shapes • Surface area and volume 	<ul style="list-style-type: none"> • Graphs • Number • Interpreting data 	<ul style="list-style-type: none"> • Algebra • Shape and ratio • Fractions and decimals 	<ul style="list-style-type: none"> • Proportion • Circles • Equations and formulae 	<ul style="list-style-type: none"> • Computing data
Year 9	<ul style="list-style-type: none"> • Percentages • Equations and formulae • Polygons 	<ul style="list-style-type: none"> • Using data • Application of graphs • Pythagoras' theorem 	<ul style="list-style-type: none"> • Fractions • Algebra • Decimal numbers 	<ul style="list-style-type: none"> • Prisms and cylinders • Solving equations graphically • Compound units 	<ul style="list-style-type: none"> • Right angled triangles 	<ul style="list-style-type: none"> • Revision and GCSE preparation



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Week Starting	Week	Year 10			
Sept 5 th	1	A 1.1/Function Machines (E01)	N1.1/Multiplication and Division (E02)	H1.1/Timetables (E03)	S1.1/Metric Units (E04)
Sept 12 th	2	A1.2/Collecting Like Terms and Expanding Brackets (E05)	N1.2/Types of Numbers (E06)	H1.2/Two Way Tables (E07)	S1.2/Angles (E08)
Sept 19 th	3	A1.3/Sequences (E09)	N2.1/Percentages 1 (E10)	H1.3/Mean, Median, Mode and Range (E11)	S2.1/Angles in a Triangle (E12)
Sept 26 th	4	A1.4/Solving Equations and Creating Expressions (E13)	N2.2/Percentages 2 (E14)	H1.4/Probability Based on Equally Likely Outcomes (E15)	S2.2/Angles in a Quadrilateral and Angles in Polygons (E16)
Oct 3 rd	5	A1.5/Substitution (E17)	N3.1/Improper Fractions and Mixed Numbers (E18)	H1.5/N1.3	S1.3/S2.3
Oct 10 th	6	Basic Revision 1	Basic Revision 2	Y10 Assessment HT1	Assessment Feedback and Corrections
Oct 17 th	7	N3.2,N2.3/Topic response/Challenge	Challenge/Topic Response N1.4,S1.4,	Challenge S2.4,N3.3/Topic response	Challenge/Topic Response N2.4,N3.4
Half Term					
Oct 31 st	8	N1.5/Adding Fractions (L1)	N2.5/Product of Primes (L2)	S1.5/Two Step Equations(L3)	Review L1-3
Nov 7 th	9	S2.5/Mean from Table (L4)	A1.6/Pythagoras' Theorem Long Side (L5)	H1.6/Interpreting Pie Charts 1 (L6)	Review 4-6/Revision A
Nov 14 th	10	N1.6/Constructing Triangles 1 (L7)	N2.6/Finding % Increase (L8)	N3.6/Averages Problems (Mean). (L9)	Review L7-9/Revision B
Nov 21 st	11	S1.6/Interior Angles Regular. (L10)	S2.6/Isometric Drawings. (L11)	A1.7/Unknown on Both Sides with Integers. (L12)	Review L10-12/Revision C
Nov 28 th	12	H1.7/Multiply with Mixed Numbers. (L13)	N1.7/Inequalities on a Number Line and Solution Sets. (L14)	N2.7/Measuring Bearings. (L15)	Review L13-15/Revision D
Dec 5 th	13	Y10 Non-Ba Revision L1-7	Y10 Non-Basic Revision L8-15	Y10 Assessment HT2	Assessment Feedback/Corrections
Dec 12 th	14	Topic Response/Challenge L1-7	Topic Response/Challenge L8-15	Topic Response/Challenge L1-7	Topic Response/Challenge L8-15
Dec 19 th	15	Topic Response/Challenge	Topic Response/Challenge	Topic Response/Challenge	Topic Response/Challenge
Christmas					



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Jan 9 th	16	N3.7/Exterior Angles Regular. (L16)	S1.7/Change Subject One Step. (L17)	S2.7/Estimating the Mean. (L18)	Review L16-18/Revision E
Jan 16 th	17	A1.8/Distance Time Graphs. (L19)	H1.8/Pythagoras' Theorem Short Side. (L20)	N1.8/Congruent Shapes (AF01)	Revision L19-20b/Revision F
Jan 23 rd	18	N2.8/Corresponding Angles. (L21)	N3.8/Constructing Nets. (L22)	S1.8/Subtracting Fractions. (L23)	Review L21-L23/Revision G
Jan 30 th	19	S2.8/Circumference of Circles. (L24)	A1.9/Find % Decrease. (L25)	H1.9/Alternate Angles. (L26)	Review L24-27/Revision H
Feb 6 th	20	N1.9/Ratio (AF02)	Y10 Non-Basic Revision L16-26	Y10 Assessment HT3 L16-26	Assessment Feedback/Corrections
Feb 13 th	21	Challenge/Topic response	Challenge/Topic Response	Challenge/Topic response	Challenge/Topic Response
Half Term					
Feb 27 th	22	N2.9/Pythagoras in Context 1. (L27)	N3.9/Drawing Bearings. (L28)	S1.9/Volume of Prisms. (L29)	Review L27-29/Revision I
Mar 6 th	23	S2.9/Unknown on Both Sides (Non-integers). (L30)	A1.10/Averages Problems (Median). (L31)	H1.10/Simple Interest (AF03)	Review L30-31b/Revision J
Mar 13 th	24	N1.10/Adding Mixed Numbers. (L32)	N2.10/Surface Area. (L33)	N3.10/Perimeter of Compound Shapes. (L34)	Review L32-34/Revision K
Mar 20 th	25	S1.10/Solving Linear Inequalities. (L35)	S2.10/Dividing Mixed Numbers. (L36)	A1.11/Plotting Straight Lines Explicitly. (L37)	Review L35-37/Revision L
Mar 27 th	26	Non-Basic Revision L27-37	Y10 Assessment HT4 L1-37	Assessment Feedback/Corrections	Challenge/Topic Response
Easter					
April 17 th	27	H1.11/Interpreting Pie Charts 2. (L38)	N1.11/Change Subject Two Step. (L39)	N2.11/Exterior Angles Irregular. (L40)	Review L38-40/Revision M
April 24 th	28	N3.11/Order Fractions (Common Denominators). (L41)	S1.11/Equations, expressions, formula or identity. (L42)	S2.11/Error/Truncated Intervals (AF04)	Review L41-42a/Revision N
May 1 st	29	A1.12/Speed (Compound Measure). (L43)	H1.12/Density (Compound Measure). (L44)	N1.12/Interior Angles Irregular. (L45)	Review L43-45/Revision O
May 8 th	30	N2.12/Pythagoras in Context 2. (L46)	N3.12/Average Problems (Range Mode). (L47)	S1.12/Fractions to Decimals using Division. (L48)	Review L46-L48/Revision P



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May 15 th	31	S2.12/Identify and prove similar Triangles/shapes (AF05)	Non-Basic Revision L38-48	Y10 Assessment HT5 L1-48	Assessment Feedback/Corrections
May 2 nd	32	Challenge/Topic Response	Challenge/Topic Response	Challenge/Topic Response	Challenge/Topic Response
Half Term					
June 5 th	33	A1.13/Pressure (Compound Measure). (L49)	H1.13/Area of Compound Shapes (L50)	N1.13/Volume of compound shapes (L51)	Review L49-51/Review Q
June 12 th	34	N2.13/Subtracting Mixed Numbers. (L52)	N3.13/Area of circle. (L53)	S1.13/Substitution (AF06)	Review L52-53a/Revision R
June 19 th	35	S2.13/Setup and Solve Linear Equations. (L54)	A1.14/Plotting Implicit Linear Functions. (L55)	H1.14/Solving equations using function notation	Review L54-56/Revision S
June 26 th	36	N1.14/Ratio. (L57)	N2.14/Reflections. (L58)	N3.14/Translations. (L59)	Review L57-59/Revision T
July 3 rd	37	S1.14/Frequency Trees (L60)	S2.14/Use Venn Diagrams(L61)	A1.15/Area and volume Scale Factor (L62)	Review L57-59/Revision T
July 10 th	38	H1.15/Relative frequency (L63)	N1.15/Volume of cylinder(L64)	N2.15/Ratio (L65)	Non-Basic Revision (L49)
July 17 th	39	Y10 Assessment HT5 L1-60	Challenge/Topic Response	Challenge/Topic Response	Challenge/Topic Response



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Year 11					
Week	Week	Lesson 1	Lesson 2	Lesson 3	Lesson 4
Sept 5 th	1	A 1.1a/Index Laws (E01)	N1.1a/FDP Equivalence (E02)	H1.1a/Drawing Pie Charts (E03)	Review E01-E03
Sept 12 th	2	A1.2a/Factorising (E04)	N1.2a/Negative Numbers (E05)	S1.1a/Area (E06)	Review E04-06/Revision A
Sept 19 th	3	S1.2a/Angles (E07)	N2.1a/Proportion (E08)	S2.1a/Rotation (E09)	Review E07-09/Revision B
Sept 26 th	4	N2.2a/HCF and LCM by Listing (E10)	N3.1a/Product of Primes/(L1)	H1.2a/Expanding double brackets (L2)	Review E10,L1,2/Revision C
Oct 3 rd	5	S2.2a/Plot Explicit Graphs (L3)	A1.3a/Estimating Mean (L4)	N2.3a/Ratio into 3 parts (AF01)	Review L3,L4, AF01,Revision D
Oct 10 th	6	N3.2a/Venn Diagrams (AF02)	HT1 Revision	HT1 Assessment	HT1 Assessment Corrections/Feedback
Oct 17 th	7	Challenge/Topic Response	Challenge/Topic Response	Challenge/Topic Response	Challenge/Topic Response
Half Term					
Oct 31 st	8	A1.1b/Find % Change(L5)	N1.1b/Interior Angles (L6)	N2.1b/Distance Time Graphs (L7)	Review L5-7, Revision E
Nov 7 th	9	S1.1b/Interpreting Pie Charts (L8)	S2.1b/Volume of Prisms (L9)	H1.1b/Exterior Angles (L10)	Review L8-10, Revision F
Nov 14 th	10	N3.1b/+ and - with Mixed Numbers (L11)	A1.4a/Average Problems (L12)	H1.3a/Change Subject (L13)	Review L11-13, Revision G
Nov 21 st	11	S1.3a/Pythagoras' Theorem (L14)	S2.4a/Parallel Lines (L15)	N1.4a/Bearings (L16)	Review L14-16, Revision H
Nov 28 th	12	N2.4a/Unknown on Both Sides (L17)	N3.3a/x and / with Mixed Numbers (L18)	A1.2b/Inequalities on a Number Line and Solution Sets (L19)	Review L17-18, Revision I
Dec 5 th	13	H1.2b/Tree Diagrams (AF03)	S1.2b/Arc Length (AF04)	S2.2b/Area of sector (AF05)	Review AF02-04/Revision J



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Dec 12 th	14	N1.2b/Quadratic/Fibonacci/Geometric Sequences (AF06)	HT2 Revision	HT1/2 Assessment	HT2 Assessment Corrections/Feedback
Dec 19 th	15	Challenge/Topic Response	Challenge/Topic Response	Challenge/Topic Response	Challenge/Topic Response
Christmas					
Jan 9 th	16	N2.2b/Isometric Drawings (L20)	N3.2b/Perimeter and Area of Compound Shapes(L21)	A1.5a/Fractions to Decimals using Division (L22)	Review L20-22/Revision K
Jan 16 th	17	H1.4a/Describing Translation (L23)	S1.5a/Compound Measure (L24)	S2.5a/Find original amount after a % change (AF07)	Review L23,L24,AF07/Revision L
Jan 23 rd	18	N1.5a/Surface Area (L25)	N2.5a/Solving Linear Inequalities (L26)	N3.4a/Constructing Triangles (L27)	Review L25-27/Revision M
Jan 30 th	19	A1.3b/Centre of Enlargement(L28)	H1.3b/Describing Reflection (L29)	S1.3b/Describing Rotation (L30)	Review L28-30/Revision N
Feb 6 th	20	S2.3b/Congruence(AF08)	N1.3b/Enlargement with fractional scale (AF09)	N2.3b Increase/decrease a quantity using a decimal multiplier (AF10)	Review AF08-10/Revision O
Feb 13 th	21	HT3 Revision	HT3 Test	HT3 Assessment Feedback and Corrections	Challenge/Topic Response
Half Term					
Feb 27 th	22	N3.3b/Plotting Implicit Linear Functions(L31)	A1.6a/Finding Gradients/intercept of Linear Graphs Graphically(L32)	H1.5a/HCF by Product of Primes (L33)	Review L31-33/Revision P
Mar 6 th	23	S1.6a/LCM by Product of Primes (L34)	S2.6a/Find the gradient/intercept of linear graphs algebraically (L35)	N1.6a/Compound Interest (AF11)	Review L34,L35,AF11/Revision Q
Mar 13 th	24	N2.6a/Similar Shapes (AF12)	N3.5a/Loci Equidistant from 1 and 2 Points (L36)	A1.4b/Loci Equidistant from a Line/Bisecting an angle (L37)	Review L36-38,AF12/Revision R
Mar 20 th	25	H1.4b/Negative Powers (AF13)	S1.4b Factorising Quadratics (AF14)	S2.4b/Solve Quadratics by factorising (AF15)	Review L39,L40,AF13,AF14/Revision S
Mar 27 th	26	N1.4b/Plotting Quadratics (L38)	N2.4bStandard Form (AF16)	N3.4b/Standard Form (AF17)	Review AF15-17/Revision T



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Easter					
April 17 th	28	Selected Past Papers Questions with advice sheet	Selected Past Papers Questions with advice sheet	Selected Past Papers Questions with advice sheet	Trigonometry
April 24 th	29	Selected Past Papers Questions with advice sheet	Selected Past Papers Questions with advice sheet	Selected Past Papers Questions with advice sheet	Trigonometry
May 1 st	30	Selected Past Papers Questions with advice sheet	Selected Past Papers Questions with advice sheet	Selected Past Papers Questions with advice sheet	Trigonometry
May 8 th	31	Selected Past Papers Questions with advice sheet	Selected Past Papers Questions with advice sheet	Selected Past Papers Questions with advice sheet	Simultaneous Equations
May 15 th	32	Selected Past Papers Questions with advice sheet	Selected Past Papers Questions with advice sheet	Selected Past Papers Questions with advice sheet	Simultaneous Equations
May 22 nd	33	Selected Past Papers Questions with advice sheet	Selected Past Papers Questions with advice sheet	Selected Past Papers Questions with advice sheet	Simultaneous Equations