Maths Guidance

2017 – 2018

Below is the termly topic guide for students following accreditation programmes.

Sky College Qualifications Overview

	Yr 10/11	Yr 10/11	Yr 9/10	Yr 7-11
Term	**Pack Linked to GCSE External Links**	**Functional Skills**	**Entry Level Certificate (August Entry)**	**Entry Level Cerificate (Jan Entry)**
1	Number	Number	1. Properties of number / 2. Operations	1 Properties of Number
2	Algebra / Graphs	Measure	4. Money	2. Operations
3	Ratio, Proportion and Rates of Change	Number Review	3. Ratio	3. Ratio
4	Geometry and Measure	Shape and Space / *Measure Review*	6.Measures 7. Geometry	4. Money
5	Statistics and Probability	Handling Data	5. Calender 8. Statistics	5. Calender
6	Review / Exams	Review / Exam	IV / Moderation	6.Measures
1				7. Geometry
2				8. Statistics
				Ongoing as required

The Progression scale is used in parallel breaks down the curriculum into 12 steps on the scale.   Expected Progress form Year 7-11 is step 4-9. Our Sky 5 plan supports students by providing students with progress steps and skills linked to their qualifications.

The progression scale is broken up into 6 strands: 1) Number,   2) Algebra,   3) Geometry and Measures,   4) Ratio, proportion and rates of change,   5) Probability, 6) Statistics.

 Expected Progress form Year 7-11 is step 4-9.

Sky 5: Capturing Our Students' Progress:

	Foundation (EL1)	Consolidation (EL2)	Progression (EL3)	External Qualification	
	Emerging/Directed	Developing/Supported	Mastered/Independent	Functional Skills	GCSE
1	I can use mathematics in classroom activities. I can work with objects or pictures and discuss it. I can see patterns.	I can use maths in my classroom activities. I can use mathematical words, symbols and diagrams. I can explain why an answer is correct.	I can solve problems organise my work and check my results. I can use decimals and negative numbers to do things like tell the temperature.	I can use ratio, proportion and scale. I can see the connection between fractions, decimals and percentages	I can demonstrate confidence and competence with maths. This means I can apply it flexibly to solve problems and use and apply standard techniques. I can recall facts, words and definitions and complete tasks.
2	I can count, order, add and subtract numbers. I can use subtraction and addition. I can half a quantity.	I can count sets of objects and add and subtract up to 20. I can use place value of digits in a number and order numbers up to 100. I can choose the correct operation. Eg + or - I can use mental maths with money and measures. I can notice sequences like odd and even numbers. I can use fractions that are one part of a whole.	I can use numbers up to 1,000 and make approximations. I can add and subtract two digit numbers in my head and three digits on paper. I know the 2, 3, 4, 5, 8 and 10 times tables and can use them to divide. I can solve whole number problems, fractions with more than one part eg. 2/3. I can tell when two simple fractions are the same.	I can use formulae and equations. I can recognise and use 2-D representations of 3-D objects I can use, convert and calculate using metric and, where appropriate, imperial measures	I can reason, interpret and communicate mathematically. I can draw conclusions from mathematical information. I can reason, interpret and communicate information accurately, present arguments and proof, and evaluate information.

3	I can use money. I know the days of the week and times on the hour or half hour.	I can convert between pounds and pence. I can add money and give change. I can read times on an analogue and digital clock.	I can solve real problems involving money. I can tell properties of 2D and 3D shapes such as reflective symmetry. I know and can use units of length, capacity, weight and time, in context.	I can use positive and negative numbers. I can carry out calculations with numbers and use decimal places I can find area, perimeter and volume of shapes	I can solve problems in non-mathematical contexts by using maths.
4	I can describe properties of 2D and 3D shapes, I can measure and order objects and events.	I know 2D and 3D shapes and can tell you their properties. I can see straight and turning movements and understand angles. I can measure length and weight.	I can use simple tables and lists, charts and pictograms.	I can data, using ICT. I can use statistical measures, tables and diagrams, using ICT	I can use different parts of mathematics. I can interpret results in a problem. I can evaluate methods and results.
5	I can sort objects. I can write and use simple lists and graphs.	I can sort objects by different properties. I can record results in lists, tables and graphs.	I can discuss mathematical work and explain it. I can use mathematical symbols and diagrams. I can show my understanding using examples.	I can use statistics to investigate situations I can use probability to assess the likelihood of an outcome.	I can demonstrate confidence and competence with mathematical content and flexibly solve problems.
Assessment Format	AQA Entry Level Maths 5930 Specimen Papers – Baseline Termly end of unit live Papers x8.	AQA Entry Level Maths 5930 Specimen Papers – Baseline Termly end of unit live Papers x8.	AQA Entry Level Maths 5930 Specimen Papers – Baseline Termly end of unit live Papers x8.	Onscreen Test Paper FSM01/Onscreen MAT01 Paper FSM02/Onscreen MAT02	Practice papers / Final exam linked to qualification: AQA GCSE Maths 8300

Practice Functional Skills Test Links

http://www1.edexcel.org.uk/fs-onscreen-sams2/m1/

http://www1.edexcel.org.uk/fs-onscreen-sams2/m2/

SKYCOLLEGE®

Year 4 Progress Tracking

Name:

Code	Mastery Indicator	Dashboard		
4M1	Round any number to the nearest 10, 100, 1000 and round a number with one decimal place to the nearest whole number			
4M2	Count backwards through zero			
4M3	Use columnar addition and subtraction with numbers up to four digits			
4M4	Multiply two- and three-digit numbers by a one-digit number			
4M5	Use known and derived facts to multiply and divide mentally			
4M6	Write any number of tenths or hundredths as a decimal			
4M7	Find families of common equivalent fractions			
4M8	Add and subtract fractions with the same denominator			
4M9	Find areas of rectilinear shapes by counting squares			
4M10	Use a line of symmetry to complete a symmetric shape or pattern			
4M11	Identify lines of symmetry in 2D shapes			
4M12	Use coordinates in the first quadrant			
4M13	Interpret and construct bar charts and time graphs			

Sky Maths Progress Guide

Step	Apx NC Guide	Year Guide			Apx NC Guide		(Indicative Grade)	Former GCSE Grade
12th							9	A **
11th							8	A*
10th					8a+		7	A
9th					8a		6	B
8th					7a/8c/8b		5	Top 1/3 C / Bottom 1/3 B
7th		Y11			6a/7c/7b		4	C
6th		Y10			6b		3	D
5th	6c	Y9			6c		3	E
4th	5a	Y8					2	F
3rd	5b	Y7					2	F
2nd	4a/4b/5c	Y6					1	F/G
1st	4c	Y5					1	G
	3a/4c	Y4						
	3b	Y3						
	2a/3c	Y2						
	2b	Y1						
	1b	Y1						
		Entry Y7	End of Y7	End of Y8	End of Y9	End of Y10	End of Y11	

Baseline Date/Result:

Outcomes:

Entry Level 1 / 2 / 3   **Functional Skills Level 1 / 2**

Mock GCSE Grade U / 1 / 2 / 3 / 4 / 5 / 6 / 7 / 8 / 9   **GCSE Grade U / 1 / 2 / 3 / 4 / 5 / 6 / 7 / 8 / 9**