

Never Stop Flying

MATHS

Achieving Excellence through a Values Driven Education



Examinations



Paper 1
Non Calculator
1 hr 30 minutes
80 marks

Paper 2
Calculator
1 hr 30 minutes
80 marks

Paper 3
Calculator
1 hr 30 minutes
80 marks

Exam Board: Edexcel

Foundation: Grades 1 to 5

Higher: Grades 3 to 9





Y10 Course Structure



Look to build on the skills they have learnt in Years 7-9 and apply them into GCSE structured questions.

6 units of work throughout the year.

Each unit will contain a mixture from the 5 main strands:

Number, Algebra, Ratio, Geometry and Statistics





Y10 Tests/Assessments



Assessment each half term – largely GCSE questions on material previously taught

363

Below is a revision list for your in-class assessment the week beginning ____ Not all topics on the list will be assessed.

Independent events and simplified probability trees

TOPIC	Question	ıs		Question Title	Score		2	Hegarty Number	
Fractions as pictures	1			Converting lengths	0	/	1	692	
Money (cost problems)	2			Fractions of an amount	1	/	1	77	
Linear sequences (term-to-ter	3			Convert percentages to fractions	3	/	3	82	
Linear sequences (nth ter	4			Multiplication with decimals	2	/	2	48	
Perimeter of a compound sl Collecting like terms	5			Compare negative numbers	4	/	5	37	
Conversion graphs	ба		Interpret a vertical line graph			/	4	425	
Reverse percentages	6b		Interpret a vertical line graph		0	/	2	425	
One number as a percentage of	7			Fractions as pictures	1	/	1	58	
Simplify expressions involving	8			Money (cost problems)	3	/	3	23,745	
Solve single linear inequaliਹ	೮১	!	207		1			•	
Speed (calculating time)			721						





Y10 Home Learning





7A	Add or subtract fractions (different denominator) (66)	Dividing fractions (70)	Writing algebraic expressions 2 (152)	2
8B	Solve 2-step equations (involving multiplication) (179)	Pythagoras (longer side) (498)	Compound shapes (555)	2
Oct HT	Solve equations with x on both sides 1 (184)	Pythagoras (shorter side) (499)	Reflections (2) (640)	
9A	Prime factorisation 2 (30)	LCM (worded problems) (36)	Expand two single brackets & simplify (161)	3

3 tasks a week set on Hegartymaths.

- Students should be aiming for a Green or Amber percentage on each topic.
- If not they should ensure they are watching the video making notes and have a go at the test one more time.





Y10 Review Lesson



Y10 Review Lesson (F)

Test 1



Y10	Rev	lest 16					
		The fi	rst 10 questions are non-calculator. The next 15 questions are calculator.				
Test 1A		O	Question	Answer	Angelynatis		
The first 1		1	If 30% is equivalent to 45, what is 100% equivalent to?		339		
Q	Qu	2	Find the circumference of a circle with radius 8cm. Leave your answer in terms		534		
1	If?		of π .				
2	Fir	3	Estimate by rounding to 1 significant figure $\frac{32.3 \times 49.6}{4.7}$		131		
3	Est	4	Complete the equivalent fractions $\frac{4}{9} = \frac{20}{7}$		59		
4	Co	5	Write $\frac{50}{9}$ as a mixed number		63		
5	W	6	Calculate $\frac{5}{8} - \frac{1}{3}$		66		
6	Ca	7	Calculate 13 ²		99		
7	Ca	8	Find the highest common factor of 27 and 45.		31		
8	Fir	9	Write 84 as a product of its prime factors		29/30		
9	W	10	Give a possible pair of two prime numbers that sum to a square number less		28/99		
10	Gir		than 30				
	th	11	Solve $2f + 9 = 31$		179		
11	So	12	Find the length of the side labelled x 5 11		499		
12	Fir						
13	L	13	Calculate 5 $\frac{7}{2}$ - 3 $\frac{4}{2}$ =		66		
	Ca	14	Gary's alarm and Ian's alarm both bleep at 7:50 am. Then Gary's alarm bleeps		36		
14	Ali		every 6 minutes and Ian's alarm bleep every 4 minutes. What is the next time				
15	So		both alarms bleep together?				
16	Ro	15	, ,		179/160		
17	W	16	Round 438 to the nearest 1 significant figure		130		
18	Fir	17	Write 0.31 as a fraction		52		
	be	18	Find the HCF of 60 and x is 12. Give a number between 20 and 50 that x could		31		
19	Th		be?				
-	Gir	19	The circumference of a circle is given as 40cm. What is the diameter of the		535		
20	Pu		circle? Give your answer to 1 decimal place				
	1	20	Put the following fractions in order, smallest to largest		60		
21	Th		17 1 1 4 3				
22	So	L.	20'2'4'5'10'				
23	Co	21	The cost of a 4kg box of washing powder is £10, what is the cost per 150g?		764		
24	W	22	Solve the equation $3f + 5 = 8f - 15$		184		
25	An	23	Convert 3.4 litres into millilitres		698		
	tri	24	Write 480 as a product of its prime factors.		29/30		
		25	An isosceles triangle has side lengths 10cm, 10cm and 12cm. Find the area of		501/502		
		I	the triangle	1	1		

- Mini Assessment occurring every 2 weeks
- Mixture of recently taught material plus key GCSE skills
- 3 Test format Test A/B/C asks the same questions but different numbers.
- Students need to be aiming to improve each test
- Hegarty Maths clip numbers for practise
 / Support
- Tests are kept in their orange books for reference / support









MemRi

Adaptive retrieval quizzes to help your students remember what they've learned

Self generated revision quiz of up to 10 questions each time.

Questions are all based on previous topics your child has attempted but may have forgotten.

Fantastic revision tool to aid retention of skills – different questions every time

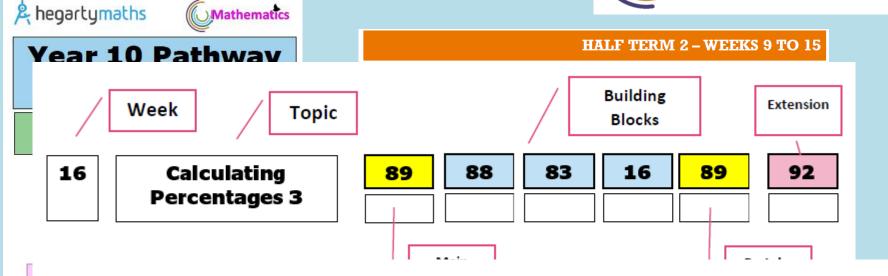
Only Key GCSE topics and skills are used Set as optional Home Learning.





Additional work to improve





What we recommend



We recommend your child completing the following tasks each week

Love challenges, be intrigued enjoy effort, and keep or

- 3 x Standard Home Learning tasks from their Class teacher (Typically Mon-Mon)
- 2 x Additional tasks assigned from this booklet (Thurs Thurs)
- 1 x Memri quiz per week (up to a maximum of four)



Maths Contacts



- Mr A. Coe Curriculum Area Leader acoe@penistone-gs.uk
- Mr J. Steele 2nd in Department jsteele@penistone-gs.uk
- Mr L. Modiri KS5 Coordinator Imodiri@penistone-gs.uk
- Mrs L. Wilson KS3 Coordinator
 lwilson@penistone-gs.uk

