



Maths Parent Information Evening Year 11

Tom Merriman – Pastoral Leader Year 11

Agenda

- Work ethic
- The 9-1 Maths GCSE
- Trial exams
- Personalised targets and action plans
- Sparx Maths – Corbett Videos
- Revision programme
- Support available
- Supporting your child

Effort predicts progress



PRIDE	1 (very low)	2 (low)	3 (satisfactory)	4 (good)	4+1 (HL) (excellent)
Average progress of student versus national average for students with same prior attainment	-1.20	-0.71	-0.05	+0.64	+0.66

Prior attainment does not define final outcomes

WORK ETHIC / PRIDE DOES

The 9-1 Maths GCSE

*The biggest change to the maths qualification
taken at age 16 for a generation*

Grading the new GCSE



Old grades	New grades
A*	9
A	8
B	7
C	6
	5 STRONG PASS
	4 STANDARD PASS
D	3
E	2
F	1
G	1
U	U

Raising the Participation Age

Any student not achieving grade 4 or higher at Maths GCSE will be required to continue further study (and resit) in post-16 education

THE LEVEL OF SUPPORT IN SCHOOL IS WILL EXCEED THE SUPPORT OFFER IN COLLEGE FOR RESITS!

Tiering the new GCSE

		Old grades	New grades		
FOUNDATION TIER	HIGHER TIER	A*	9	HIGHER TIER	FOUNDATION TIER
		A	8		
		B	7		
		C	6		
		C	5 STRONG PASS 4 STANDARD PASS		
	D	3			
	E	2			
	F	1			
	G	1			
	U	U			

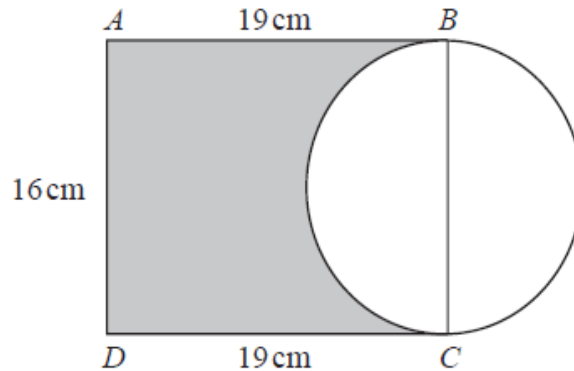
The new 9-1 Maths GCSE What has changed?



- Increased content
- Increased challenge; 9 is harder than A*
- Both foundation and higher tiers are harder
- 3 X 1 ½ hr exams. Non-calculator -> calculator -> calculator
- Formula Sheet **WILL** be available to students
- Emphasis on problem solving; less in-question guidance
- Multi skilled questions
- Similar to old-style O-level papers, but taken by **all** students

Increased challenge Foundation tier

27 Here is a diagram showing a rectangle, $ABCD$, and a circle.



BC is a diameter of the circle.

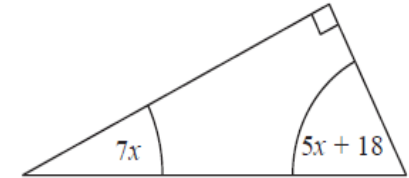
Calculate the percentage of the area of the rectangle that is shaded.
Give your answer correct to 1 decimal place.

(b) Make M the subject of this formula.

$$R = 3T + \frac{1}{2}M$$

**The right tier of study for many more students
than previously**

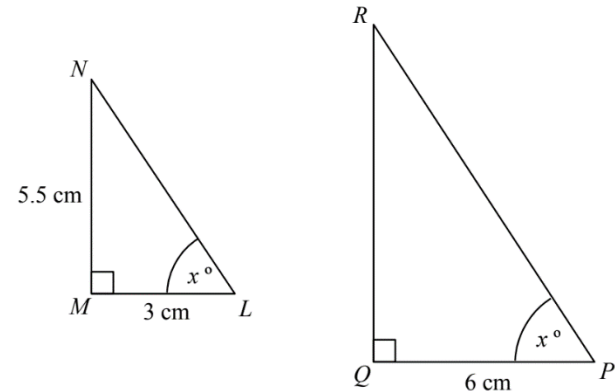
20 The diagram shows a right-angled triangle.



All the angles are in degrees.

Work out the size of the smallest angle of the triangle.

23



The diagram shows triangle LMN and triangle PQR .

(a) Explain how you can tell that triangle LMN and triangle PQR are similar.

Increased challenge

Higher tier



25 $A(-2, 1)$, $B(6, 5)$ and $C(4, k)$ are the vertices of a right-angled triangle ABC . Angle ABC is the right angle.

Find an equation of the line that passes through A and C .

Give your answer in the form $ay + bx = c$ where a , b and c are integers.

19 Solve the simultaneous equations

$$y = \sqrt{x + 2}$$

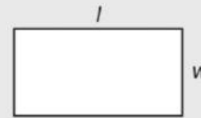
$$(y + x)(y - x) = 0$$

The right tier of study for fewer students than previously. Suitable for those that could go on to A-level Maths study. Excellent PRIDE scores and willingness to do additional independent study required

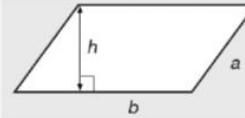
This will be made available to students

Areas

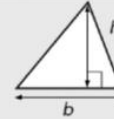
Rectangle = $l \times w$



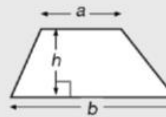
Parallelogram = $b \times h$



Triangle = $\frac{1}{2} b \times h$



Trapezium = $\frac{1}{2}(a + b)h$

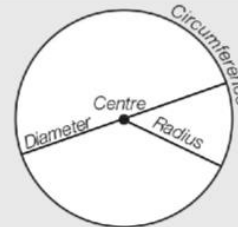


Circles

Circumference = $\pi \times \text{diameter}$, $C = \pi d$

Circumference = $2 \times \pi \times \text{radius}$, $C = 2\pi r$

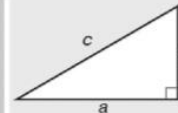
Area of a circle = $\pi \times \text{radius squared}$, $A = \pi r^2$



Pythagoras

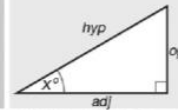
Pythagoras' Theorem

For a right-angled triangle,
 $a^2 + b^2 = c^2$



Trigonometric ratios (new to F)

$\sin x^\circ = \frac{\text{opp}}{\text{hyp}}$, $\cos x^\circ = \frac{\text{adj}}{\text{hyp}}$, $\tan x^\circ = \frac{\text{opp}}{\text{adj}}$



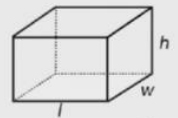
Quadratic equations

The Quadratic Equation

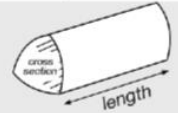
The solutions of $ax^2 + bx + c = 0$,
where $a \neq 0$, are given by $x = \frac{-b \pm \sqrt{(b^2 - 4ac)}}{2a}$

Volumes

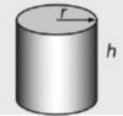
Cuboid = $l \times w \times h$



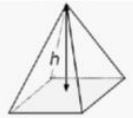
Prism = area of cross section \times length



Cylinder = $\pi r^2 h$



Pyramid = $\frac{1}{3} \times \text{area of base} \times h$



Compound measures

Speed

speed = $\frac{\text{distance}}{\text{time}}$



Density

density = $\frac{\text{mass}}{\text{volume}}$



Pressure

pressure = $\frac{\text{force}}{\text{area}}$

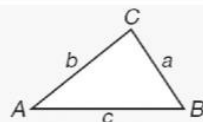


Trigonometric formulae

Sine Rule $\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$

Cosine Rule $a^2 = b^2 + c^2 - 2bc \cos A$

Area of triangle = $\frac{1}{2} ab \sin C$



Trial exams

Monitoring your son/daughter's progress

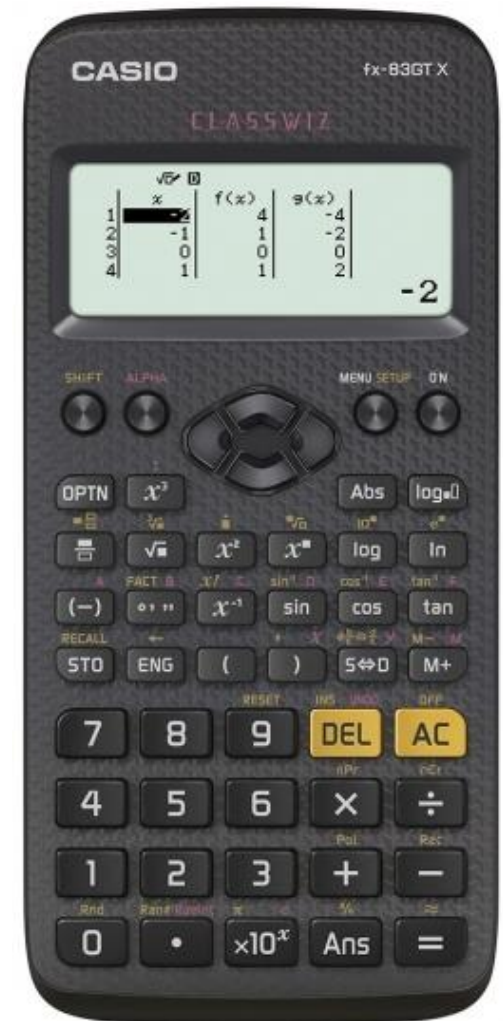
Trial exams

Two rounds of trials

- Christmas trials – w/c 02/12/24
- Pre Easter trials – w/c 20/02/25
- Full GCSE experience in exam venues and with past/mock papers (just like in year 10 Summer exams)
- Please make sure students have full equipment, including a clear pencil case and clear water bottle

Equipment

- Black ball-point pen
- Pencil
- Ruler
- Rubber
- Protractor
- Pair of compasses
- Scientific calculator
- *(Casio FX-83 GTX recommended-
available from Finance Office)*



CALCULATOR

PLEASE ENSURE THAT YOUR CHILD HAS THE
CALCULATOR THEY WILL USE IN THE SUMMER

NOW

**THEY NEED TO LEARN ITS
FUNCTIONALITY NOW AND BE FAMILIAR
WITH THEIR CALCULATOR BEFORE THE
EXAMS.**

Personalised targets and action plans

Individual steps to success for every student

Foundation Tier

Student n.o.: **4**
 Name: **Student 4**
 Class: **11j/Ma1 23/24**

Summary of your performance in the trial exams			
Exam papers		Marks achieved	Marks available
Paper 1	Non-calculator	23	80
Paper 2	Calculator	30	80
Paper 3	Calculator	25	80
Total		78	240
Estimated 9-1 grade achieved		2-	

Important information

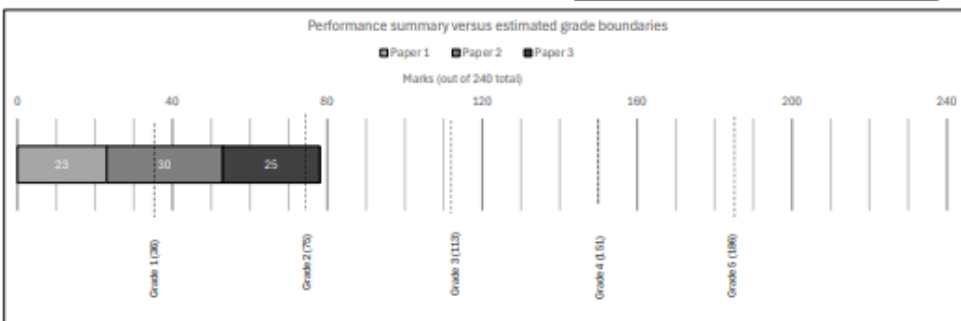
Students stay in education until they are 18.

All learners without a GCSE grade of 9-4 in Maths or English will be required to undertake either a GCSE or functional skills programme at college, alongside your chosen course.

Students performing highly on the foundation tier papers will be able to: calculate with numbers written in standard form, use trigonometry and solve simultaneous equations!

For the trial exams, Wyvern College students sat a mock paper prepared by the exam board specifically for this purpose. Grade boundaries were not released by the exam board, but a group of experienced teachers within our department have estimated the boundaries. Please understand these are **estimates** when interpreting the information in this summary and should only be used as a guide.

The better your grade, the easier it will be to accelerate through college courses or in the forces/apprenticeships. ALL grades matter!

ACTION PLAN- What you need to do now to improve

1

Correct your trial papers answers

Make corrections on all your trials papers in green pen when your teacher models the answers in class.

2

Work on your weakest areas

Look through the analysis sheet for each topic that was assessed in this trial exam. For each topic:

1. Watch the Sparx Maths videos and make notes of the key ideas and worked examples
2. Complete the Sparx Maths quizzes for that topic

Make sure you are also strong with any topics that are in the curriculum that were not examined in this trial exam

3

Fully engage in the practice paper revision programme

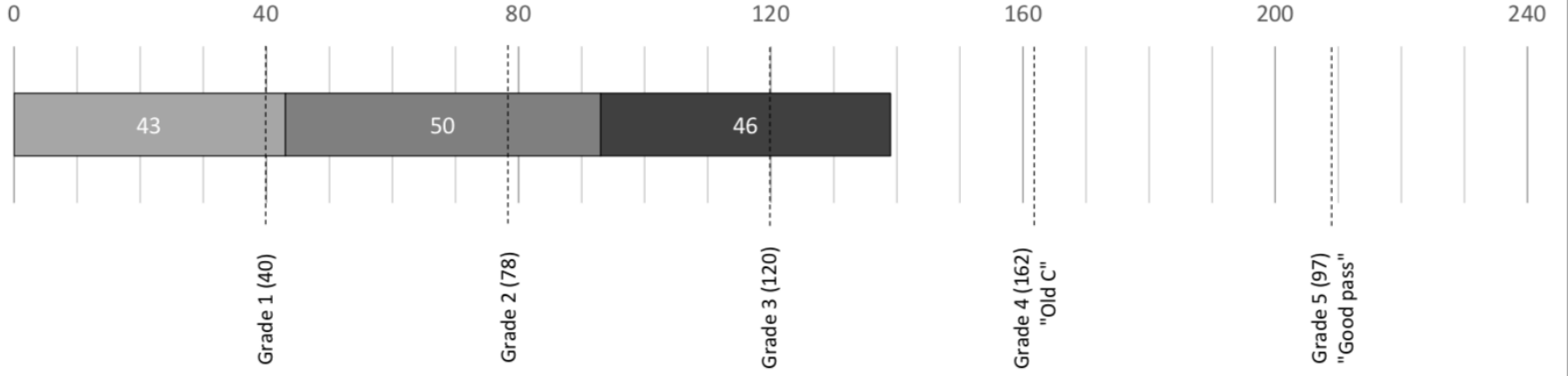
Follow your teacher's advice fully to get the most learning from your weekly homework paper:

1. These are not assessments, they are learning resources. Use Sparx Maths, your revision guides, your parents, friends and teachers for support.
2. Leave no blanks; if you can't answer a question this is a 'call to action' to do something to learn it, not an excuse to not do it.
3. Show full workings on all your answers.
4. Attend Foundation PG sessions for additional support. Make sure you've done all the questions you can before the session so you can focus on the questions that you find difficult.
5. If you take Additional Maths, you will be able to use these lessons for additional support. Make sure you've done all the questions you can before the session so you can focus on the questions that you find difficult.
6. Form study groups with friends, online or in person.
7. Make full corrections from answers modelled in class.
8. Use the learning and feedback you get from each paper to improve the next.

Performance summary versus estimated grade boundaries

■ Paper 1 ■ Paper 2 ■ Paper 3

Marks (out of 240 total)



The most important thing now is that you **act** to secure your learning on the topics this analysis has identified that you need to improve. Look at the topics below and for each one that needs to be improved:

1. Watch the Sparx Maths videos and make notes of the key ideas and worked examples
2. Complete the Sparx Maths quizzes for that topic.

Greyed out topics have not been examined on this trial but these are required for the Foundation Tier. Make sure you are also strong with any topics that are in the curriculum that were not examined in this trial exam.

Number	45%					
	Ordering positive & negative integers (U400 & U407)	Ordering Decimals (U433)	Arithmetic with positive integers (U417, U427, U464)	Arithmetic with negative numbers (U742, U546)	Arithmetic with decimals (U479, U293, U584, U593)	Place Value (U731)
	0%	0%	100%	0%	100%	0%
	Order of Operations (U796)	Prime numbers & prime factorisation (U236, U739)	Factors, Multiples, HCF & LCM (U211, U751, U529, U250)	Powers & Roots (U812)	Standard Form (U430, U534, U264, U296, U161)	Equivalent Fractions (U704, U566)
100%	0%	25%	0%	88%	25%	
Mixed numbers & improper fractions (U462, U736)	Ordering Fractions (U746)	Arithmetic with fractions (U735, U793, U475, U544, U224, U538)	Fraction, Decimal & Percentage Equivalence (U880, U594)	Proportion of Amount (U881, U914, U514, U848)	Percentage Change (U779, U671, U332, U588)	
0%	0%	38%	49%	0%	0%	
Reverse Percentage (U286, U279)	Simple Interest (U533)	Rounding (U480, U298, U791, U763)	Estimating (U225)	Value for Money (U641)	Error Intervals (U637)	
0%	0%	50%	0%	0%	0%	
Algebra	33%					
	Algebraic expressions (U612)	Collecting like terms (U180)	Substitution (U210, U585, U544)	Expanding Brackets (U179, U748)	Factoring expressions (U361)	Index laws (U220, U694, U662, U593)
	0%	100%	100%	0%	0%	100%
Changing the subject (U542)	Coordinates & Midpoints (U798, U880, U852)	Plotting straight line graphs (U761)	Equations of straight line graphs (U702, U469, U477, U848)	Parallel lines (U177)	Distance-time graphs (U613, U614, U615, U964)	
100%	60%	0%	0%	0%	0%	
Linear equations (U755, U125, U876, U568, U599)	Linear Inequalities (U759, U758, U245, U587)	Quadratic & Cubic graphs (U989, U667, U682)	Quadratic expressions & equations (U176, U228, U601)	Sequences (U213, U530, U488, U978, U958, U688)	Linear Simultaneous equations (U740, U741, U816, U137)	
0%	0%	76%	0%	0%	0%	
Geometry and measure	6%					
	Properties of 2D shapes (U121, U844)	Properties of 3D shapes (U729, U761)	Angles: measuring & drawing (U647)	Basic angle facts (U190, U730, U543)	Angles on parallel lines (U826)	Angles in a triangle (U428)
	0%	0%	33%	0%	0%	0%
Angles in a quadrilateral (U732, U228)	Polygon angles (U427)	Marking & Constructions (U523, U187, U188, U787, U979, U820, U587)	Transformations (U196, U799, U529, U646, U766)	Congruence (U790, U564)	Similar shapes (U553, U578)	
0%	0%	0%	0%	0%	0%	
Perimeter & Area of shapes (U788, U976, U510, U222, U585, U175, U534, U264, U343, U856)	Codes (U767, U684, U221, U562, U371)	Surface Area (U629, U258, U871)	Volume (U796, U714, U913)	Pythagoras' theorem (U365)	Trigonometry (U805, U283, U541)	
33%	0%	0%	0%	0%	0%	
Ratio, proportion & rates/range	16%					
	Ratio (U487, U758, U577, U576, U821, U854)	Proportion (U721, U643, U857, U364, U238, U510)	Units of Masses & Scale Diagrams (U450, U388, U902, U248, U137)	Currency Conversion (U650)	Real life Graphs (U552, U838, U862)	Compound Units (U151, U910, U527)
7%	46%	18%	0%	40%	0%	
Probability & sets	19%					
	Single event probability (U803, U508, U510, U883)	Experimental probability (U885, U244)	Sets & Venn diagrams (U768, U284, U674)	Frequency trees (U280)	Sample space diagrams (U204)	Tree Diagrams (U554, U728)
75%	68%	20%	21%	0%	0%	
Stat data	68%					
	Collecting data (U122, U130)	Two way tables (U961)	Bar Charts (U363, U537)	Pictograms (U506)	Pie Charts (U509, U172)	Stem & Leaf diagrams (U200, U906)
0%	0%	100%	0%	0%	33%	
Mode (U248)	Median (U464)	Mean (U292)	Range (U134)	Choosing Averages (U717)	Scatter graphs & Line graphs (U190, U277, U126, U189, U888)	
100%	0%	0%	100%	0%	0%	

Year 11 Christmas Trial Exams 2024-25

GCSE Maths- My Strengths and Areas For Development Across the Curriculum



The most important thing now is that you **act** to secure your learning on the topics this analysis has identified that you need to improve. Look at the topics below and for each one that needs to be improved:

1. Watch the Sparx Maths videos and make notes of the key ideas and worked examples
2. Complete the Sparx Maths quizzes for that topic.

Greyed out topics have not been examined on this trial but these are required for the Foundation Tier. Make sure you are also strong with any topics that are in the curriculum that were not examined in this trial exam.

Number	41%					
	Ordering positive & negative integers (U600 & U947)	Ordering Decimals (U435)	Arithmetic with positive integers (U417, U127, U453)	Arithmetic with negative numbers (U742, U548)	Arithmetic with decimals (U478, U293, U868, U926)	Place Value (U735)
		0%	100%		100%	
	Order of Operations (U976)	Prime numbers & prime factorisation (U236, U739)	Factors, Multiples, HCF & LCM (U211, U751, U529, U250)	Powers & Roots (U851)	Standard Form (U330, U534, U264, U290, U161)	Equivalent Fractions (U704, U646)
	100%	0%	25%		50%	25%
Mixed numbers & Improper Fractions (U692, U746)	Ordering Fractions (U746)	Arithmetic with fractions (U736, U793, U475, U544, U224, U538)	Fraction, Decimal & Percentage Equivalence (U888, U594)	Proportion of Amount (U881, U916, U554, U349)	Percentage Change (U773, U671, U332, U988)	
		38%	60%	50%	0%	
Reverse Percentage (U286, U278)	Simple Interest (U533)	Rounding (U480, U298, U731, U965)	Estimating (U225)	Value for Money (M681)	Error Intervals (U657)	
	0%	50%	0%		0%	

ACTION PLAN – What you need to do **NOW** to improve

1

Correct your trial papers answers

Make corrections on all your trials papers in green pen when your teacher models the answers in class

2

Work on your weakest areas

Look through the analysis sheet for each topic that was assessed in this trial exam. For each topic:

1. Look up the appropriate Sparx Clip, complete the quiz for that topic, watch the video if stuck and make any notes needed to help you with revision.
2. Corbett Maths also has excellent videos and questions to aid revision

Make sure you are also strong with any topics that are in the curriculum that were not examined in this trial exam

3

Fully engage in the practice paper revision programme

Follow your teacher's advice fully to get the most learning from your weekly homework paper:

1. These are not assessments, they are learning resources. Use Sparx Maths, your revision guides, your parents, friends and teachers for support
2. Leave no blanks; if you can't answer a question this is a '**call to action**' to do something to learn it, not an excuse to not do it
3. Show full workings on all your answers
4. Attend your teacher's after-school sessions for additional support. Make sure you've done all the questions you can before the session so you can focus on the questions that you find difficult
5. Form study groups with friends, online or in person
6. Make full corrections from answers modelled in class
7. Use the learning and feedback you get from each paper to improve the next

Independent learning tasks for every topic on the Maths GCSE.

Video help available if stuck.

Topic details

Compound interest calculations

GCSE / Number / Percentage change

Description

Example Questions

Teaching Notes

Supporting Topics

Level 1

Level 2

Level 3

Level 4

Level 5

Introduce Q. 1

[Watch video](#)

A savings account gathers **compound interest** at a rate of 4% per annum. The amount of money in the account over the first two years is shown below.

Copy and complete the expression below for the amount of money in the account after n years.

Start	£500.00	
After 1 year	£520.00	£ <input type="text"/> × <input type="text"/> ⁿ
After 2 years	£540.80	



Welcome

5-a-day

Videos

Worksheets

GCSE Revision



Corbettmaths Revision Cards

GCSE Higher or
GCSE Foundation

Practice Papers

- Corbett maths is also a great platform for more:
- In-depth videos on each topic
- Textbook styled questions
- Past paper practice questions

Maths Genie

Videos	Exam Questions	Exam Questions Booklet	Solutions
Writing a Ratio as a Fraction or Linear Function	Exam Questions Exam Questions	Ratio Fraction Problems Ratio Problems 2	Solutions Solutions
Direct and Inverse Proportion	Exam Questions	Direct and Inverse Proportion	Solutions
Reverse Percentages	Exam Questions	Reverse Percentages	Solutions
Standard Form	Exam Questions	Standard Form	Solutions
Speed and Density	Exam Questions	Compound Measures	Solutions
Changing the Subject of a Formula	Exam Questions	Changing the Subject of a Formula	Solutions
Expanding and Factorising Quadratics	Exam Questions	Expanding and Factorising Quadratics	Solutions
Solving Quadratics	Exam Questions	Solving Quadratics	Solutions
Drawing Quadratic Graphs		Quadratic Graphs	Solutions
Drawing Other Graphs: Cubic/Reciprocal		Cubic/Reciprocal Graphs	Solutions
Simultaneous Equations	Exam Questions	Simultaneous Equations	Solutions
Solving Simultaneous Equations Graphically	Exam Questions	Solving Simultaneous Equations Graphically	Solutions
Midpoint of a Line Segment			
Gradient of a Line	Exam Questions	Gradient of a Line	Solutions
Equation of a Line	Exam Questions	Equation of a Line	Solutions
Spheres and Cones	Exam Questions	Spheres and Cones	Solutions
Sector Areas and Arc Lengths	Exam Questions	Sectors and Arcs	Solutions

PRACTICE PAPER

Revision programme

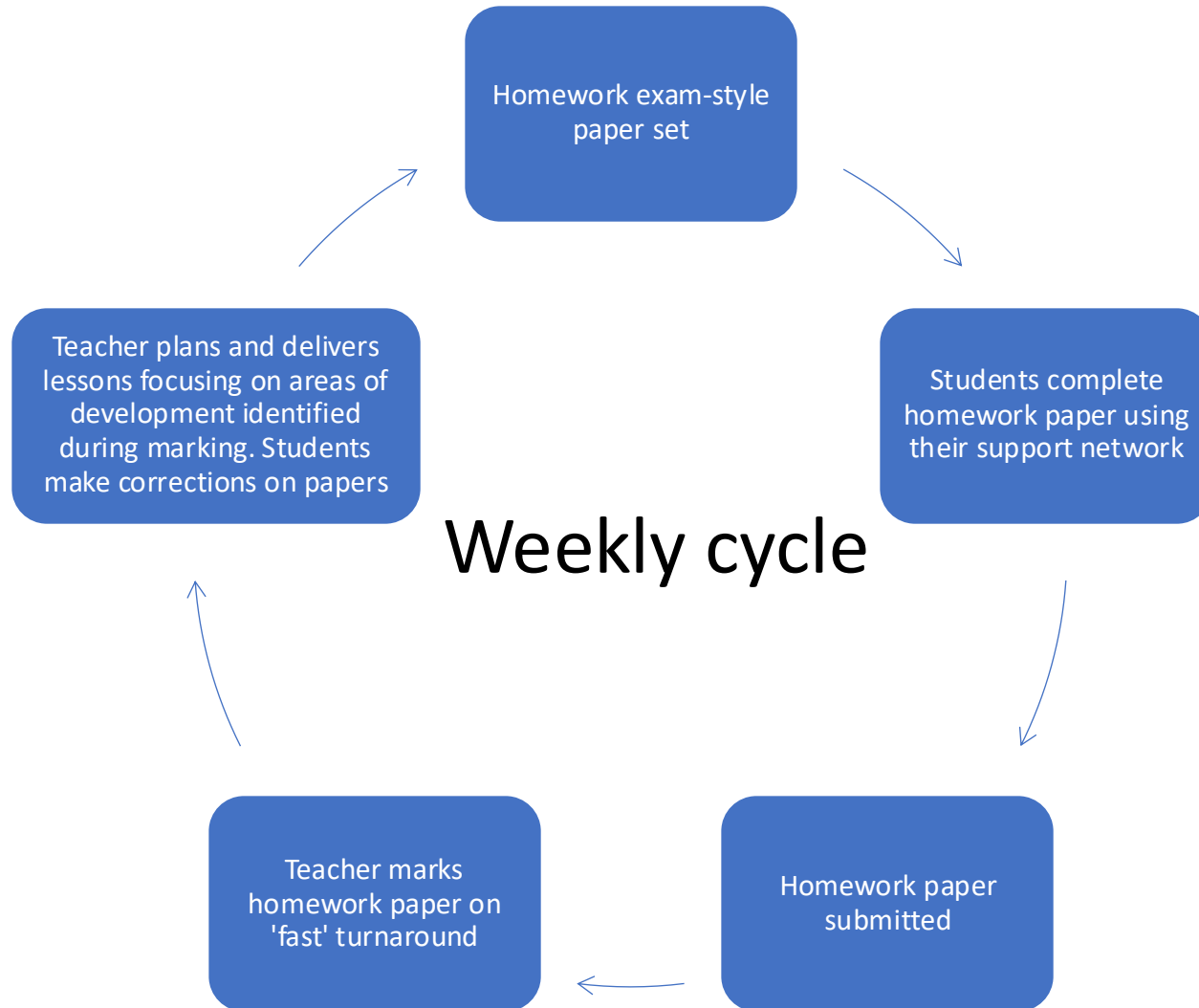
Preparing students for success

Y11 Practice Paper Revision Programme 2024~2025

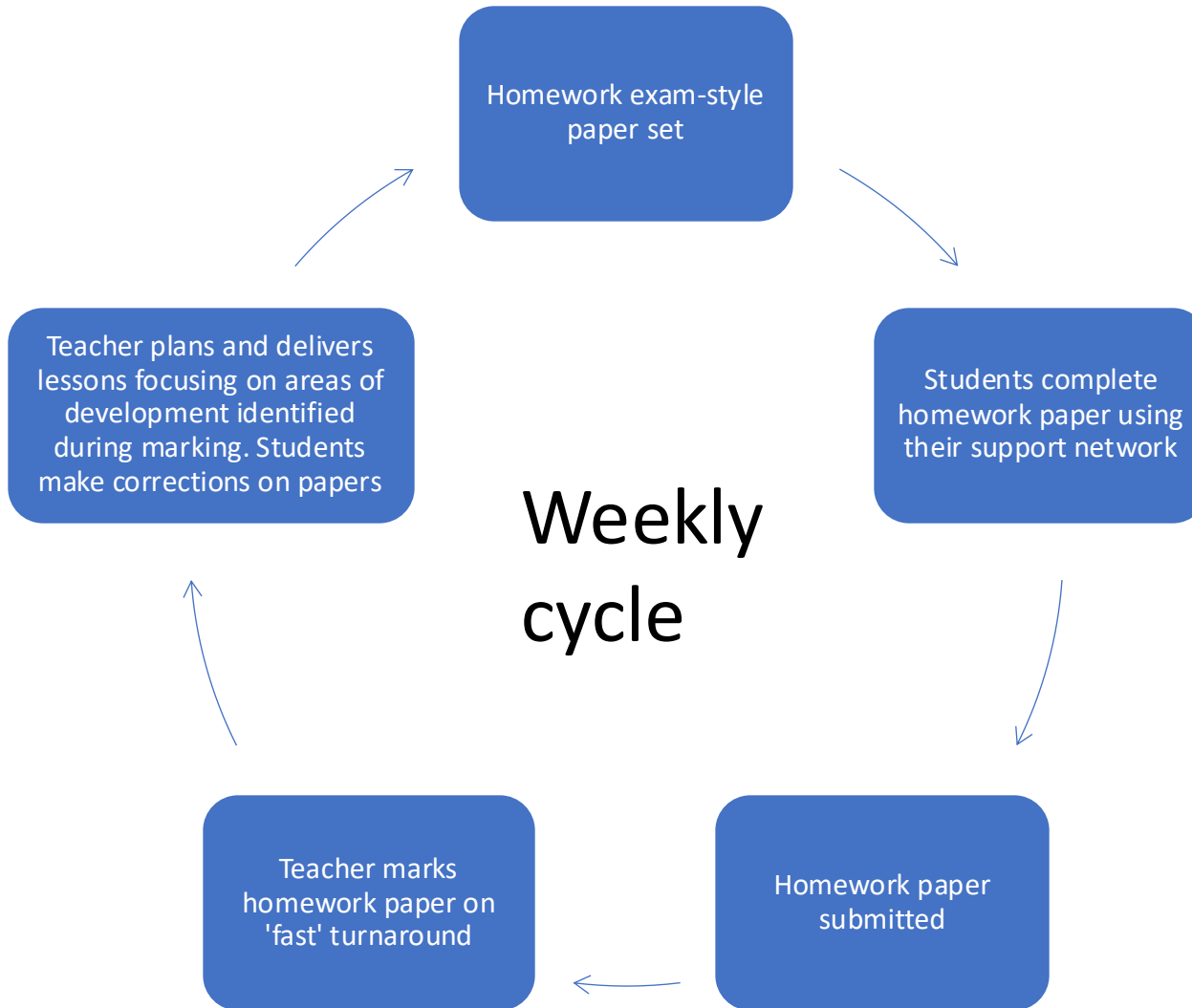
The following papers will be photocopied for you

Week	Wk beginnin	Key milestones	Set	Due
8	21/10/2024		Churchill 1A	
Half Term Hols	28/10/2024			
Aut half term 2	9	04/11/2024	Prep for Trials	Churchill 2A
	10	11/11/2024		Churchill 3A
	11	18/11/2024		Edexcel 1MA0 Nov 2021 P1
	12	25/11/2024		Edexcel 1MA0 Nov 2021 P2
	13	02/12/2024	Xmas Trials	
	14	09/12/2024		
	15	16/12/2024		
Xmas Hols	23/12/2024		Edexcel 1MA0 Nov 2021 P3	
	30/12/2024		WITH MARK SCHEME	
	16	06/01/2025		Churchill 1B
	17	13/01/2025		Churchill 2B
	18	20/01/2025		Churchill 3B
	19	27/01/2025		Churchill 1C
	20	03/02/2025		Churchill 2C
	21	10/02/2025		Churchill 3C
Feb Half Term	17/02/2025		Teacher to choose appropriate paper/task	
	22	24/02/2025	Spring Trials	
	23	03/03/2025		Edexcel 1MA0 June 2022 P1
	24	10/03/2025		Edexcel 1MA0 June 2022 P2
	25	17/03/2025		Edexcel 1MA0 June 2022 P3
	26	24/03/2025		Edexcel 1MA0 Nov 2022 P1
	27	31/03/2025		Edexcel 1MA0 Nov 2022 P2
Easter Holidays	07/04/2025		Edexcel 1MA0 Nov 2022 P3	WITH MARK SCHEMES
	14/04/2025		Edexcel 1MA0 June 2023 P1	
	28	21/04/2025		Edexcel 1MA0 June 2023 P2
	29	28/04/2025		Edexcel 1MA0 June 2023 P3
	30	05/05/2025		Edexcel 1MA0 June 2024 P1
	31	12/05/2025		Edexcel 1MA0 June 2024 P2
	32	19/05/2025		Edexcel 1MA0 June 2024 P3

Revision programme



Revision programme

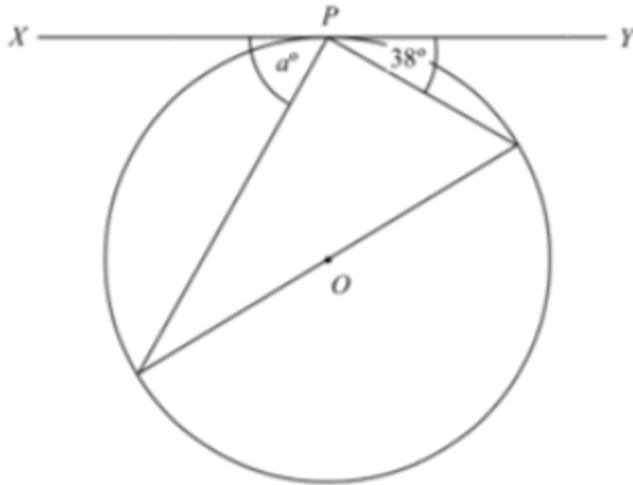


PRIDE 5 (4+1)
Accelerate progress

- Students complete regular additional independent study on Sparx Maths
- Focus on targets identified in trial exams feedback sheets and on weekly homework papers

Practice papers

5



The diagram shows a circle, centre O .

The straight line XY is a tangent to the circle at the point P .

Work out the value of a .

(Total for Question 5 is 2 marks)

Working on exam-style papers builds:

- Ability to select the right strategies at the right time
- Ability to problem solve
- Exam technique
- Student confidence for exams

Questions	Question Title	Score	SPARX Clip Number	9-1 GCSE Maths Homework
1	Linear sequences (nth term)	/ 2	U498	November 2020
2	Multiplying mixed numbers	/ 3	U475, U224	
3	Recognise quadratic, cubic and reciprocal graphs	/ 2	U989, U593, U980	
4	Congruent triangles	/ 1	U866	
5	Percentage profit	/ 3	U127, U293, U453, U868, U554, U349, U773, U671, U286, U278	1 H
6	Multi-step angle problems	/ 5	U826	
7	Interpret stem-and-leaf diagrams	/ 3	U200, U909	
8	Pressure, volume of a prism	/ 3	U174, U527	Non-Calculator
9	Compare numbers in standard form	/ 2	U330, U534	Name
10	Harder problems involving ratios	/ 3	U921, U676, U865	Class
11a	Order of operations	/ 2	U376	Due Date
11b	Index form (powers of unit fractions)	/ 2	U985	
11c	Manipulating powers	/ 2	U851, U985, U772, U235, U634	
12a	Cumulative frequency tables	/ 1	U182	
12b	Draw a cumulative frequency diagram	/ 2	U182	
12c	Interpret a cumulative frequency diagram	/ 3	U642	
13	Density of a mixture	/ 3	U910	
14	Independent events and probability trees	/ 3	U558	
15	Straight line graphs (perpendicular lines)	/ 3	U741, U315, U669, U477, U848, U377,	
16a	Capture-recapture	/ 3	U162	
16b	Capture-recapture	/ 1	U162	
17	Change the subject of the formula	/ 4	U556	
18	Algebraic direct proportion, percentage multipliers	/ 3	U637, U640, U407	
19a	Function notation	/ 1	U637	
19b	Composite functions	/ 2	U895	
19c	Inverse functions	/ 2	U996	
20	Rationalise surds	/ 4	U281	
21	Vectors (geometry problems)	/ 4	U660, U560, U781	
22	Area of circles and sectors, quadratic equations	/ 5	U150, U950, U373	
23	Harder problems involving ratios	/ 3	U676, U865	
	Total	/ #		

Getting the most from your papers

- These are **LEARNING** resources, not tests. Use all the resources you have available to you for help including: **Hegarty Maths, revision guides, after-school sessions etc**
- Leave no blanks. If you can't do a question this is a 'call to action' to **DO SOMETHING** to learn it, not an excuse to not do it
- Show **FULL WORKINGS**. Most of the marks available in this paper are for workings
- Attend after-school sessions on offer by your teachers. Form study-groups with friends, online or in person
- Make full corrections from answers modeled in class
- After your paper has been marked, write in your score for each question in the table on the left. If you did not score full marks do some revision of the listed topic on Hegarty Maths
- Use the learning and feedback you

Each question is linked to a topic and Sparx clip



1	Linear sequences (nth term)	/	2	U498
2	Multiplying mixed numbers	/	3	U475, U224
3	Recognise quadratic, cubic and reciprocal graphs	/	2	U989, U593, U980
4	Congruent triangles	/	1	U866
5	Percentage profit	/	3	U127, U293, U453, U868, U554, U349, U773, U671, U286, U278, U721
6	Multi-step angle problems	/	5	U826
7	Interpret stem-and-leaf diagrams	/	3	U200, U909
8	Pressure, volume of a prism	/	3	U174, U527
9	Compare numbers in standard form	/	2	U330, U534
10	Harder problems involving ratios	/	3	U921, U676, U865
11a	Order of operations	/	2	U976
11b	Index form (powers of unit fractions)	/	2	U985
11c	Manipulating powers	/	2	U851, U985, U772, U235, U694

GETTING THE MOST FROM YOUR PAPERS



These are **LEARNING** resources, not tests. Use all the resources you have available to you for help including: Sparx, revision guides, after-school sessions etc.

Leave no blanks. If you can't do a question, this is a **“call to action”** to do **SOMETHING** to learn it, not an excuse to leave it

Show **FULL WORKINGS**. Most of the marks available in a paper are for workings

Attend after-school sessions on offer by your teachers. Form study-groups with friends, online or in person

Make full corrections from answers modelled in class. After your paper has been marked, write your score for each questions in the table on the left. If you did not score full marks do some revision of the topic listed on Sparx

Use the learning and feedback you get from this paper to improve the next. When Similar topics come up on future papers use the feedback from this one to help

GRADE BOUNDARIES

FOUNDATION

GRADE 5	63
GRADE 4	53
GRADE 3	40
GRADE 2	27
GRADE 1	13
UNGRADED	Below 13

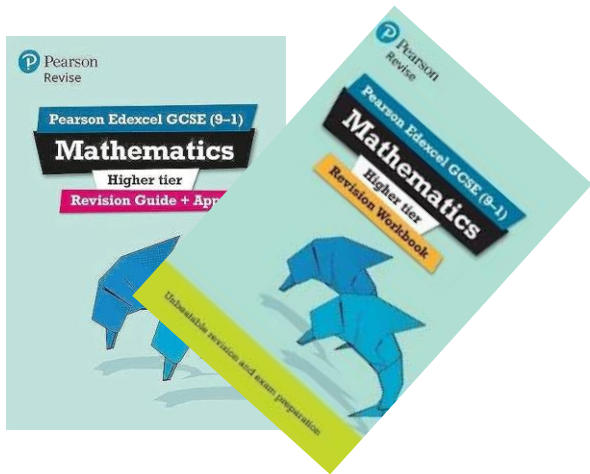
HIGHER

GRADE 9	70
GRADE 8	60
GRADE 7	50
GRADE 6	40
GRADE 5	30
GRADE 4	20
GRADE 3	13
UNGRADED	Below 13

PRACTICE THE GRADE YOU WANT TO ACHIEVE

THERE IS AN EXPECTATION THAT STUDENTS SHOULD IMPROVE THE SCORES ACHIEVED IN THEIR TRIALS AND EACH WEEK AFTER THAT!

THEY HAVE LOTS OF RESOURCES TO USE.....



Support and intervention

Opportunities for additional support

Support network

Sparx Maths

- Trials feedback sheets linked to Sparx
- Weekly homework papers linked to Sparx

After-school homework paper workshops

- One per week offered to all students with PRIDE scores of 4 +
- Work with teacher and peers collaboratively on homework papers
- Come to with specific questions to work on

Support network

Where students should turn when they get stuck

Peer and parent support

- Parental support on papers
- Parental support on Sparx
- Peer study groups- online or in person

Optional additional resources

- Revision guides & Workbooks- Finance Office
- Private tutoring- we can make recommendations and are happy to work with private tutors
- Additional math's classes (if applicable)

SATURDAY SCHOOL TBC

- Watch an expert complete a paper
- Questions welcomed
- Full modelled answers recorded, ensuring all processing marks are gained

- Then students sit the paper
- Idea is to build confidence and exam technique
- Teachers mark over weekend and feedback on Monday with grade achieved.

- Generally invite only – effort and confidence

Supporting your child

You can make a big difference

Supporting your child's preparations for GCSE Maths



Speak about math's positively and get stuck in with them! Students will follow your example. Never say, "I'm not good at math's"

- *"Stuck on your homework paper? Let's get on Sparx Maths together and see if we can figure this out"*
- *"Nobody learns something the first time. Try this again tomorrow"- build their resilience and confidence*
- *"With hard work and if you don't give up, you will become an excellent mathematician"- reinforce our message that work ethic conquers all*

Supporting your child's preparations for GCSE Math's



Support your child in getting the most from the weekly homework paper

- *Check there are no blanks*
- *Have they used the Sparx-linked videos on any questions they struggled with?*
- *Are they using similar questions on previous papers to answer questions on the current paper?*
- *Have they shown full workings (look at the number of marks in a question)?*
- *Encourage them to attend the after-school homework paper workshops*
- *Have they made full corrections in green pen on the answers gone through in class?*

Supporting your child's preparations for GCSE Maths



Support your child with regular Hegarty Maths sessions on their personalised targets

- *Establish a regular time at home when your son/daughter will complete some Independent Learning on Sparx Math's on topics identified as areas for improvement from their trials exams feedback sheet and their weekly homework papers*
- *Sit with and encourage them if needed to build their confidence in their ability to learn independently*

Supporting your child's preparations for GCSE Maths



Make sure your child has a support network and is using it correctly

- *Are they attending the after-school homework paper workshops?*
- *Can you or a family member sit with and support them when they work on their weekly homework paper?*
- *Could they set up or join a group of friends to work together on their papers?*
- *Contact us for recommendations if you'd like to consider a private tutor*

Supporting your child's preparations for GCSE Maths



Work with your child's math's teacher. We welcome collaboration and regular contact