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THE TRINITY CATHOLIC SCHOOL

MATHEMATICS KS4 INFORMATION BOOKLET



CURRICULUM

INFORMATION



Key Stage 4 Subject: Maths Higher Head of Department: Mrs Butler

Which exam	At Trinity we teach the Edexcel 9 - 1 GCSE Mathematics specification.
will students	Students will sit the Edexcel GCSE Mathematics examination.
sit?	
What are the	There are five main strands of Maths:
key topics and	Number, Algebra, Geometry & Measure, Probability & Statistics and Ratio
when will they	& Proportion.
be taught?	
How are	There will be 3 papers, each making up a third of the grade awarded.
students	There will be 2 calculator papers and 1 non-calculator paper, each paper is
assessed?	1 hour 30 minutes long.
	Dates for these papers will be released nearer the time.
What	Students will be receiving past papers regularly in school next year.
resources are	However, here are some places you can go now:
available to	 www.edexcel.com
us?	Here you will find the full specification and sample papers.
	• www.sparx.co.uk
	This is the website students use for homework, there is more information
	on the best way to use Sparx later in this document.
	 www.justmaths.co.uk
	Lots of questions from past papers.
	 www.getrevising.co.uk
	Thousands of resources including quizzes and questions.
	 www.corbettmaths.com
	5-a-Day question are great for key skills in maths at every level. There
	are worksheets, answers and video clips to target specific skills too.
	 www.diagnostic questions.com
	Requires you to sign up but it is free. Huge range of mini quizzes which are
	designed to bring out common misconceptions.
	 www.mathsgenie.com
	Lots of revision resources here to suit everyone.

Homework

We set homework on www.sparx.com

You can use Sparx on PCs, laptops, tablets and phones. If you have any problems then your child can complete the homework at school (more information about this later).

Here is a step-by-step guide to getting started:



Create a password and write it in the box below as well as school planner.



A password reset can be requested via the website.

The logon screen will display homework tasks:

Compulsory 1 new	You must correctly answer all these questions before we consider your homework to be complete an homework contains questions around the topic(s) set by your teacher, plus a smaller number of revision que recently covered. The questions are tailored to your level of understanding. Homework is due in at 3pm on the state of the	nd ready to estions and the day sho	b be handed in. Your Comp I questions around topics th own.	oulsory at you've
XP Boost	Homework due Wednesday 18th August 3pm		•	3%
2 new	▶ Homework due Wednesday 18th August 3pm			lew
Target 2 new				
Practice				

Complete the compulsory homework first. There will be several tasks which have been set at a specific level.

< sparx	Homework	0 XP 🛛 🚨 Luka McConnell 🛛 MENU
Compulsory 1 new 1 started	You must correctly answer all these questions before we consider your homework to homework contains questions around the topic(s) set by your teacher, plus a smaller numbe recently covered. The questions are tailored to your level of understanding. Homework is du	be complete and ready to be handed in. Your Compulsory r of revision questions and questions around topics that you've e in at 3pm on the day shown.
XP Boost	 Homework due Wednesday 18th August 3pm 	6%
2 new	KS3 Task 1 🦢	20%
Target	KS3 Task 2	New
2 new	KS3 Task 3	New
Practice	KS3 Task 4	New
using Sparx	KS3 Task 5	New
	KS3 Task 6	New
	Homework due Wednesday 18th August 3pm	New
Independent Learning		

Students must achieve 100% on all tasks. Students can watch a video via a link at the bottom of the question and try again if they get a question incorrect. XP points are earned for every set of questions answers in Sparx.



For every single question completed in Sparx students need to write down their answer and working out in a book for a bookwork check. For each question there will be a bookwork code at the top of the screen.

Sparx Homework Task 2: Item D		0 XP 🛛 🛔 Sam Sparz 🛛 ME	ENU
	Bookwork code: F50		
	Bookwork code		
	Write down the new bookwork code new.		
	Done it!		
What temp			

Students should write down the code before they start the question. If they get the answer wrong they should try it again with the same bookwork code and mark their work as they go.



Every so often, students will have a bookwork check where they need to give a code.



Teachers can see how long students spend doing the quiz and how much of the video students have watched. Teachers will also see how many times students have done the quiz, which questions they got right and wrong, which answers they put and the time spent on each one and the date and time of when they did it.

WANT TO DO EXTRA?

XP BOOST

	Compulsory 1 new 1 started	Your XP Boost is only half as long as your Compulsory homework but allows you to earn loads of extra XPI XP Boost is tailored to your level of understanding and contains questions which will help you to strengthen your understanding of topics you've previously covered, plus a smaller number of questions around the topic(s) set by your teacher. You can choose whether or not you complete your XP Boost.
Λ	XP Boost	► XP Boost for Wednesday 18th August
\mathbf{V}	2 new	► XP Boost for Wednesday 18th August
	Target 2 new	
	Practice using Sparx	

XP Boost questions are at a similar level to the compulsory homework questions and will be rewards with extra XP points.

TARGET



These are designed to give your child a bit of a challenge and will also earn XP points.

The absolute best way to learn any topic is to do a little bit very often. Do one XP Boost and Target tasks each week and you will master maths.

WANT TO SEARCH FOR A TOPIC OR SPARX CLIP NUMBER?

You can search for a topic or clip number to help you revise for your Maths assessments. Click on Independent Learning on the bottom left of the home screen.



In the 'Search for topics' type wither the topic name or Sparx code you want to revise. You must select 'GCSE'. Then click the level of difficulty choosing from 1 being the easiest to 4 being the most challenging.



Here are the difficulty levels:

Level 1	Practise the basics of each topic at a gentle pace. Ideal if you plan to take the Foundation GCSE paper.	Î
Level 2	Practise the basics of each topic. Ideal if you are aiming for the top grades on the Foundation GCSE paper.	
Level 3	Practise the basics and try some more challenging questions. Ideal if you don't know which paper you will be taking yet.	
Level 4	Practise with some more challenging questions. Ideal if you plan to take the Higher GCSE paper.	
Lavel E	Practise with the most challenging questions. Ideal if	

Select Default Difficulty Level

How to revise for GCSE Maths

The best way to revise Maths is to do Maths by practising questions.

- You need to make sure you are revising the right topics for your target grade.
- You should prioritise topics you find hard or can't do.
- Then when you get stuck you need to take action and find some help.

There are lots of ways you can do this:

Sparx.co.uk

Watch videos when you get stuck and make notes from the video for attempting the task.

XP Boost - This function uses topics you have done in the past and revisits them at meaningful intervals.

Target - This function randomly selects questions which are more challenging than the questions you have been set for homework and so this will develop your Maths even further.

Revision guides/workbooks

These can be purchased from any Maths teacher for ± 5.00 . Do the questions in your revision guide. Check the answers in the back after you have done the questions. Revise any topics you are getting stuck on using Sparx. Be sure to purchase the book which focuses on the grade you are aiming for.



Revision cards

These can be purchased from any Maths teacher for \pounds 7.00. Use these to practice questions, learn important concepts and test yourself. Use the QR code to find answers, extra worksheets, exam questions and video for each card.



CorbettMaths.com

Do the 5 a day questions every day. Choose the right grade for you. There are also videos, exam questions and worksheets on every topic in GCSE. Use these for more topic revision.

Learning formulae

You will be given a formula sheet in the exam which is below. You don't need to learn these formulae but you should practice knowing when and how to use them.

Higher Tier Formulae Sheet





Compound Interest

Where P is the principal amount, r is the interest rate over a given period and n is number of times that the interest is compounded:

Total accrued =
$$P\left(1 + \frac{r}{100}\right)$$

In any right-angled triangle where a, b and c are the length of the sides and c is the hypotenuse:

 $a^2 + b^2 = c^2$

In any right-angled triangle ABC where a, b and c are the length of the sides and c is the hypotenuse:

$$\sin A = \frac{a}{c} \quad \cos A = \frac{b}{c} \quad \tan A = \frac{a}{b}$$

In any triangle ABC where a, b and c are the length of the sides:

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 =
$$\frac{1}{2} a b \sin C$$

Probability

Where P(A) is the probability of outcome A and P(B) is the probability of outcome B:

P(A or B) = P(A) + P(B) - P(A and B)

P(A and B) = P(A given B) P(B)

Practice with the correct calculator

It is extremely important that students have the correct scientific calculator, these can be purchased from most supermarkets, but you can buy them from any Maths teacher. The model that your child should have is the Casio fx-83GTX or Casio fx-83GTCW.



<u>Past papers</u>

We will begin working through past papers in lessons and for homework, but students can try them now. The more effort students put into completing these, the more improvement there will be. Students will get used to seeing different types of questions and how topics arise in exam situations.

<u>Get support</u>

Students can contact their teacher to ask a question either by email.

The best way to get support is to come to Maths Club. Everyone is welcome to join the teachers on Tuesdays and Wednesdays in MA8 from 12.30 - 1.00pm. Students can bring along some work, a past paper or book from lessons and spend more time on tricky skills.

Students need to begin doing at least 30 minutes work on your maths 2 or 3 times a week for now. By next year, students need to begin doing at least 30 minutes work on your maths every day.

Sparx Clip Catalogue

This is a catalogue of all the available Sparx clips which links to the Higher Tier (see next page). Students should tick the box when they have completed the task for that skill.

		Sparx	
	Торіс	Clip	Completed
	Using number lines	U922	
	Understanding and ordering integers	U600	
	Understanding and ordering decimals	U435	
	Adding and subtracting integers	U417	
	Adding and subtracting decimals	U478	
	Multiplying and dividing with place value	U735	
	Using a written method to multiply integers	U127	
	Using a written method to multiply decimals	U293	
	Using a written method to divide integers	U453	
	Using a written method to divide with decimals	U868	
	Ordering negative numbers	U947	
	Adding and subtracting with negative numbers	U742	
	Multiplying and dividing with negative numbers	U548	
	Calculating with roots and powers	U851	
	Estimating roots and powers	U299	
	Indices of the form 1/a	U985	
	Indices of the form a/b	U772	
	Using the correct order of operations	U976	
	Using a calculator	U926	
	Index rules with positive indices	U235	
	Index rules with pedative indices	<u> </u>	
L	Lising standard form with positive indices	11330	
lbe	Using standard form with pegative indices	<u> </u>	
μn	Multiplying and dividing numbers in standard form	11264	
Z	Adding and subtracting numbers in standard form	<u> </u>	
it 1	Standard form with a calculator	<u> </u>	
n U	Pounding integers		
	Rounding Integers	0480	
	Rounding decimals	0290	
	Rounding integers using significant ligures		
	Rounding decimals using significant ligures	0965	
		0225	
	Finding error intervals	0657	
		0587	
	I runcating decimals	U108	
	Finding error intervals for truncated numbers	U301	
	Finding factors and using divisibility tests	U211	
	Finding the lowest common multiple (LCM)	U751	
	Finding the highest common factor (HCF)	U529	
	Finding prime numbers	U236	
	Prime factor decomposition	U739	
	Finding the HCF and LCM using prime factor		
	decomposition	U250	
	Multiplying and dividing surds	U633	
	Simplifying surds	U338	
	Adding and subtracting surds	U872	
	Expanding brackets with surds	U499	
	Rationalising denominators containing a single term	U707	
	Rationalising denominators containing two terms	U281	

	Торіс	Sparx Clip	Completed
	Using algebraic notation	U613	
	Substituting into expressions	U201	
	Substituting into algebraic formulae	U585	
	Substituting into real-life formulae	U144	
	Simplifying expressions by collecting like terms	U105	
	Simplifying expressions using index laws	U662	
Ň	Expanding single brackets	U179	
itie	Expanding double brackets	U768	
lau	Expanding triple brackets	U606	
nbə	Factorising into one bracket	U365	
Ĕ	Factorising quadratic expressions of the form		
pu	\$x^2+bx+c\$	U178	
ls a	Factorising quadratic expressions of the form	11858	
ior	Factorising the difference of two squares	11963	
uat	Changing the subjects of formulae	<u>0500</u>	
Eq	Solving equations with one step	U755	
ġ	Solving equations with two or more steps	U325	
ebr	Solving equations with the variable on both sides	U870	
Ng	Solving equations with the variable in the denominator	U505	
2:4	Constructing and solving equations	U599	
Jit	Term-to-term rules	U213	
5	Substituting into position-to-term rules	U530	
	Position-to-term rules for arithmetic sequences	U498	
	Position-to-term rules for sequences of patterns	U978	
	Position-to-term rules for quadratic sequences	U206	
	Special sequences	U680	
	Position-to-term rules for geometric sequences	U958	
	Using recurrence relations	U171	

	Торіс	Sparx Clip	Completed
	Calculating the range	U526	
	Calculating the median	U456	
	Finding the mode	U260	
	Calculating the mean	U291	
	Finding averages from frequency tables	U569	
	Finding averages from diagrams	U854	
IJ	Finding averages from grouped data	U877	
Dat	Choosing suitable averages and solving problems	U717	
D	Interpreting frequency tables and two-way tables	U981	
ntin	Interpreting frequency tables with grouped data	U312	
sen	Drawing and interpreting tally charts	U653	
lres	Drawing and interpreting pictograms	U506	
Sep	Drawing bar charts	U363	
ц Ц	Interpreting bar charts	U557	
an	Drawing pie charts	U508	
bu	Interpreting pie charts	U172	
etii	Drawing line graphs	U590	
rpr	Interpreting line graphs	U193	
Itel	Plotting scatter graphs	U199	
<u> </u>	Interpreting scatter graphs	U277	
it 3	Using lines of best fit	U128	
П П	Drawing stem-and-leaf diagrams	U200	
-	Interpreting stem-and-leaf diagrams	U909	
	Drawing and interpreting frequency polygons	U840	
	Types of data	U322	
	Designing and using questionnaires	U911	
	Collecting and recording data using tables	U120	
	Presenting data and making conclusions	U571	
	Comparing populations using diagrams	U520	

	Торіс	Sparx Clip	Completed
	Finding fractions of shapes	U679	
	Constructing fractions	U163	
	Finding equivalent fractions	U704	
	Simplifying fractions	U646	
	Ordering fractions	U746	
	Adding and subtracting fractions	U736	
	Converting between mixed numbers and improper		
	tractions	U692	
	Adding and subtracting mixed numbers	0793	
	Ordering fractions and mixed numbers	0439	
	Multiplying fractions	0475	
	Multiplying with mixed numbers	0224	
	Dividing fractions	0544	
	Dividing with mixed numbers	U538	
	Problem solving: Fractions and mixed numbers	U874	
atio	Converting between fractions, decimals and percentages	U888	
Ra	Ordering fractions, decimals and percentages	U594	
<u>ళ</u>	Converting fractions to recurring decimals	U550	
geç	Converting recurring decimals to fractions	U689	
Ita	Writing numbers as percentages of other numbers	U925	
cer	Finding fractions of amounts without a calculator	U881	
er	Finding fractions of amounts with a calculator	U916	
ц Ц	Finding percentages of amounts without a calculator	U554	
šuo	Finding percentages of amounts with a calculator	U349	
cti	Percentage change without a calculator	U773	
ra	Percentage change with a calculator	U671	
 	Finding original values in percentage calculations	U286	
Jnit	Finding the percentage an amount has been changed by	U278	
	Simple interest calculations	U533	
	Compound interest calculations	U332	
	Growth and decay	U988	
	Writing and simplifying ratios	U687	
	Using equivalent ratios to find unknown amounts	U753	
	Converting between ratios, fractions and percentages	U176	
	Sharing amounts in a given ratio	U577	
	Problem solving: Sharing amounts in a given ratio		
	(Higher)	U595	
	Combining ratios	U921	
	Calculating with ratios and algebra	U676	
	Changing ratios	U865	
	Solving direct proportion word problems	U721	
	Solving inverse proportion word problems	U357	
	Currency conversion	U610	
	Interpreting direct proportion equations	U640	

	Торіс	Sparx Clip	Completed
	Understanding, measuring and drawing angles	U447	
_	Angles on a line and about a point	U390	
ţ,	Vertically opposite angles	U730	
me	Angles in triangles	U628	
ou	Angles in quadrilaterals	U732	
obj	Combining angle facts	U655	
Tri	Angles on parallel lines	U826	
00	Using quadrilateral properties to find angles	U329	
les	Angles in polygons	U427	
bu	Understanding sin, cos and tan	U605	
A	Finding unknown sides in right-angled triangles	U283	
it 5	Finding unknown angles in right-angled triangles	U545	
С	Using the exact values of trigonometric ratios	U627	
	Angles of elevation and depression	U967	
	Using Pythagoras' theorem in 2D	U385	

	Торіс	Sparx Clip	Completed
	Reading and plotting coordinates	U789	•
	Calculating midpoints	U933	
	Solving shape problems involving coordinates	U889	
	Plotting straight line graphs	U741	
	Finding equations of straight line graphs	U315	
	Interpreting equations of straight line graphs	U669	
	Finding the equation of a straight line from its gradient and a point	U477	
	Finding the equation of a straight line from two points on the line	U848	
()	Equations of parallel lines	U377	
şhq	Equations of parallel and perpendicular lines	U898	
ira	Plotting graphs of quadratic functions	U989	
5	Interpreting graphs of quadratic functions	U667	
it 6	Finding the turning point of a quadratic graph by	11760	
Un	Graphs of cubic functions	11080	
	Plotting linear real-life graphs	U652	
	Using and interpreting linear real-life graphs	U638	
	Finding equations of linear real-life graphs	U862	
	Plotting distance-time graphs	U403	
-	Interpreting distance-time graphs	U914	
	Calculating speed from distance-time graphs	U462	
	Plotting distance-time graphs using speeds	U966	
	Plotting velocity-time graphs	U937	
	Calculating acceleration from velocity-time graphs	U562	
	Calculating distances from velocity-time graphs	U611	

Unit		Sparx	
Omt	Торіс	Clip	Completed
	Converting units of length, mass and capacity	U388	
	Converting units of area	U248	
	Converting units of volume	U468	
	Problem solving: Converting units of length, area and		
	volume	U663	
	Mixed problems: Finding the area and perimeter of	11000	
		0993	
	Finding the area of compound snapes	0970	
	Problem solving: Area and parimeter of restangles and	0351	
	compound shapes (Foundation)	11226	
	Problem solving: Area and perimeter of rectangles and	0220	
	compound shapes (Higher)	U934	
	Finding the area of triangles	U945	
	Finding the area of compound shapes containing triangles	U575	
	Finding the area of parallelograms	11424	
	Finding the area of trapeziums	U265	
	Problem solving: Area of triangles, parallelograms and	0200	
	trapeziums (Foundation)	U343	
	Problem solving: Area of triangles, parallelograms and		
	trapeziums (Higher)	U904	
e me	Identifying parts of circles	U767	
olu	Finding the circumference of circles	U604	
Ň	Finding the area of circles	U950	
a 8	Finding the arc length of sectors	U221	
rea	Finding the area of sectors	U373	
: A	Nets of 3D shapes	U761	
it 7	Plans and elevations	U743	
Un	Finding the surface area of cubes and cuboids	U929	
	Finding the surface area of prisms	U259	
	Finding the surface area of pyramids	U871	
	Mixed problems: Finding the surface area of cuboids.		
	prisms and pyramids	U142	
	Finding the surface area of cylinders	U464	
	Finding the surface area of cones	U523	
	Finding the surface area of spheres	U893	
	Mixed problems: Finding the surface area of cones and		
	spheres	U771	
	Finding the surface area of frustums	U334	
	Finding the surface area of composite shapes	U561	
	Finding the volume of cubes and cuboids	U786	
	Finding the volume of prisms	U174	
	Finding the volume of pyramids	U484	
	Finding the volume of cylinders	U915	
	Finding the volume of cones	U116	
	Finding the volume of spheres	U617	
	Mixed problems: Finding the volume of cones and spheres	U426	
	Finding the volume of frustums	U350	
	Finding the volume of composite shapes	U543	

	Торіс	Sparx Clip	Completed
	Line and shape properties	U121	
	Symmetry	U849	
suc	Properties of 3D shapes	U719	
stic	Translation	U196	
Ind	Reflection	U799	
nst	Rotation	U696	
Ō	Enlargement by a positive scale factor	U519	
ంర	Enlargement by a positive or negative scale factor	U134	
SU	Combining transformations	U766	
tio	Using a pair of compasses	U678	
ma	Constructing triangles	U187	
ion	Constructing bisectors of angles	U787	
nsi	Constructing perpendicular bisectors and lines	U245	
La	Mixed problems: Constructing bisectors and		
Unit 8: T	perpendicular lines	U979	
	Constructing loci	U820	
	Drawing and interpreting scale diagrams	U257	
	Measuring and drawing bearings	U525	
	Calculating bearings	U107	

	Tonic	Sparx	Completed
	Completing the aguere		Completed
	Completing the square	0397	
	Reading and drawing inequalities on number lines	0509	
	Solving single inequalities	U759	
	Solving inequalities with the variable on both sides	U738	
ú	Solving double inequalities	U145	
ţi	Constructing and solving inequalities	U337	
alit	Solving quadratic inequalities	U133	
nb	Factorising to solve quadratic equations of the form		
De	\$x^2+bx+c=0\$	U228	
 లి	Factorising to solve quadratic equations of the form		
S	\$ax^2+bx+c=0\$	U960	
loi	Solving quadratic equations by completing the square	U589	
ati	Solving quadratic equations using the quadratic		
nb	formula	U665	
ш	Constructing and solving quadratic equations	U150	
t 9	Solving simultaneous equations using elimination	U760	
in	Solving simultaneous equations using substitution	U757	
	Solving simultaneous equations involving quadratics	U547	
	Constructing and solving simultaneous equations	U137	
	Substituting into iterative formulae	U434	
	Finding approximate solutions to equations using		
	iteration	U168	

	Торіс	Sparx Clip	Completed
	Using probability phrases	U803	
	Writing probabilities as fractions	U408	
	Writing probabilities as fractions, decimals and percentages	U510	
	Probabilities of mutually exclusive events	U683	
	Expected results from repeated experiments	U166	
ity	Sample space diagrams	U104	
lida	Venn diagrams	U476	
oba	Venn diagrams with set notation	U748	
Pre	Using set notation	U296	
ö	Frequency trees	U280	
it 1	Tree diagrams for independent events	U558	
Ц	Tree diagrams for dependent events	U729	
_	Experimental probabilities	U580	
	Using the product rule for counting	U369	
	Conditional probabilities from tables	U246	
	Conditional probabilities from Venn diagrams	U699	
	Using the conditional probability formula	U821	
	Conditional probabilities from tree diagrams	U806	

	Торіс	Sparx Clip	Completed
e	Calculating with speed	U151	
Itiv	Calculating with rates	U256	
ica g	Calculating with density	U910	
ldin	Calculating with pressure	U527	
lult	Mixed problems: Calculating density and pressure	U842	
nit 11: M Reas	Constructing direct proportion equations	U407	
	Interpreting inverse proportion equations	U364	
	Constructing inverse proportion equations	U138	
D	Graphs of direct and inverse proportion	U238	

	Торіс	Sparx Clip	Completed
>	Understanding congruence	U790	
Irit	Understanding similarity	U551	
lina	Mixed problems: Understanding similarity and		
Sirr	congruence	U112	
Init 12: S and con	Congruent triangles	U866	
	Finding unknown sides in similar shapes	U578	
	Finding the perimeter and area of similar shapes	U630	
	Finding the surface area and volume of similar shapes	U110	

	Торіс	Sparx Clip	Completed
	Trigonometry in 3D shapes	U170	
try	Calculating with trigonometry and bearings	U164	
Mo	Graphs of trigonometric functions	U450	
3:	The sine rule	U952	
it 1 goi	The cosine rule	U591	
Tri	The area rule	U592	
	Using Pythagoras' theorem in 3D	U541	

	Торіс	Sparx Clip	Completed
ທົ	Using a pair of compasses	U678	
s on	Constructing triangles	U187	
ng	Constructing bisectors of angles	U787	
stru	Constructing perpendicular bisectors and lines	U245	
Be	Mixed problems: Constructing bisectors and perpendicular lines	U979	
0 ø	Constructing loci	U820	
nit 14 Loc	Drawing and interpreting scale diagrams	U257	
	Measuring and drawing bearings	U525	
D	Calculating bearings	U107	

	Торіс	Sparx Clip	Completed
ing	Calculating with speed	U151	
son	Calculating with rates	U256	
Rea	Calculating with density	U910	
tive	Calculating with pressure	U527	
licat	Mixed problems: Calculating density and pressure	U842	
ultip	Constructing direct proportion equations	U407	
Ξ.	Interpreting inverse proportion equations	U364	
it 1	Constructing inverse proportion equations	U138	
n	Graphs of direct and inverse proportion	U238	

	Торіс	Sparx Clip	Completed
16: ratic tions	Plotting graphs of quadratic functions	U989	
Unit Quac Equa	Interpreting graphs of quadratic functions	U667	

	Торіс	Sparx Clip	Completed
	Identifying parts of circles	U767	•
(3)	Finding the circumference of circles	U604	
me	Finding the area of circles	U950	
olui	Finding the arc length of sectors	U221	
> &	Finding the area of sectors	U373	
rea	Nets of 3D shapes	U761	
er, A	Plans and elevations	U743	
nete	Finding the volume of pyramids	U484	
erir	Finding the volume of cylinders	U915	
Unit 17: P	Finding the volume of cones	U116	
	Finding the volume of spheres	U617	
	Mixed problems: Finding the volume of cones and spheres	U426	
	Finding the volume of composite shapes	U543	

	Торіс	Sparx Clip	Completed
ons, lard	Using standard form with positive indices	U330	
actic tanc	Using standard form with negative indices	U534	
Ers S S S	Multiplying and dividing numbers in standard form	U264	
t 18 ces F	Adding and subtracting numbers in standard form	U290	
Uni Indi	Standard form with a calculator	U161	

	Торіс	Sparx Clip	Completed
Jnit 19: Congruence, Similarity & Vectors	Understanding congruence	U790	
	Understanding similarity	U551	
	Mixed problems: Understanding similarity and congruence	U112	
	Congruent triangles	U866	
	Finding unknown sides in similar shapes	U578	
	Understanding column vectors	U632	
	Adding and subtracting column vectors	U903	
	Multiplying column vectors by a scalar	U564	

	Торіс	Sparx Clip	Completed
: 20: bre ebra	Graphs of cubic functions	U980	
Unit Mo Alge	Graphs of reciprocal functions	U593	