



BRITISH VIETNAMESE INTERNATIONAL SCHOOL  
HO CHI MINH CITY

A NORD ANGLIA EDUCATION SCHOOL

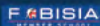
# SUPPORT YOUR CHILD WITH KS3 MATHEMATICS

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# HOW TO SUPPORT YOUR CHILD WITH KEY STAGE 3 MATHEMATICS

Firstly, we would like to thank you for your interest in supporting your child through their education; parental engagement is a fundamental element in ensuring success for our students.

This booklet is aimed at the parents of our Key Stage 3 students to help them better understand Mathematics education at BVIS. If you have any further questions, please do not hesitate to contact your child's Mathematics teacher.

## WHAT YOU CAN EXPECT TO FIND IN THIS BOOKLET

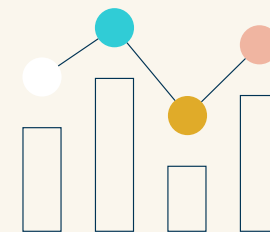
1. Schemes of learning
2. Mathematical language and notation recognised internationally
3. Homework information
4. Assessments
5. Enrichment opportunities offered at BVIS
6. Helpful websites



## 1. SCHEMES OF LEARNING

At BVIS, we take the mastery approach to educating your child in Mathematics. This means that as each unit is studied, time is given to provide your child with a deeper understanding of the content. We teach our students to understand 'why?' rather than just 'how?'. For example, we would teach our students why the area of a circle is equal to  $\pi r^2$ , rather than simply learning and applying the formula.

Our Schemes of Learning (SOL) outline the units your child will study in each term of each year. Our SOL is based upon resources from White Rose Mathematics who specialise in mastery education. As such, more information on each unit can be found on the White Rose Mathematics website, although some units will be studied in a different order. The link for this can be found at the end of this booklet.



### Year 7

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Term 1	Place Value and Proportion			Applications of Number				Algebraic Thinking				
	Place value, ordering decimals and standard form	Solving problems with addition and subtraction	Solving problems with multiplication and division	Sequences	Understanding algebraic notation	Equality and equivalence						
Term 2	Representations	Directed Number	Fractional Thinking					Reasoning with Data				
	Working in the Cartesian plane	Directed numbers	Fraction, decimal and percentage equivalence	Operations with Fractions	Fractions and percentages of amounts	Measures of location						
Term 3	Lines, Shapes and Angles						Representations and Probability					
	Constructing, measuring and using geometric notation	Area of 2D shapes	Developing geometric reasoning with angles	Sets and probability	Tables and probability	Representing Data						



## Year 8

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Term 1	Proportional Reasoning				Representations							
	Ratio and scale	Multiplicative change		Working in the Cartesian plane	Representing data	Sets and probability		Tables and probability				
Term 2	Algebraic Techniques						Developing Number					
	Brackets and equations	Sequences		Indices	Fractions and percentages	Standard index form		Number sense				
Term 3	Developing Geometry							Reasoning with Data		Algebraic Techniques		
	Angles in parallel lines and polygons	Area of trapezia and circles		Three dimensional shapes	Symmetry and Reflection	Data representation and analysis		Equations and inequalities				

## Year 9

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Term 1	Developing Number		Reasoning with Algebra							Constructing		
	Numbers and calculations	Forming and solving equations and inequalities				Straight line graphs			Constructions			
Term 2	Reasoning with Number		Reasoning with Geometry									
	Using percentages in real-life contexts	Similarity and congruence	Symmetry and transformations	Vectors		Pythagoras and trigonometry		Volume and surface area				

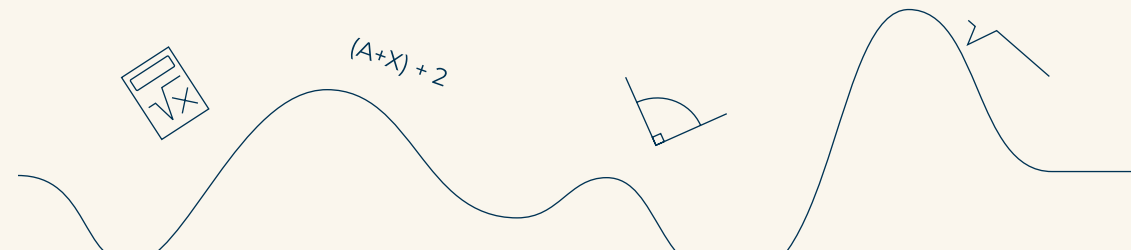
## Year 9 Term 3 - Start IGCSE Course

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Term 3	Developing Geometry		Reasoning with Data			Proportional Reasoning		Algebraic Techniques				
	Angles	Statistical graphs	Averages		Ratio and currency conversion	Equations and inequalities		Enrichment tasks				

# 2. MATHEMATICAL LANGUAGE AND NOTATION RECOGNISED INTERNATIONALLY

A strong understanding of the language and notation we use in Mathematics will enable students to develop their fluency within the subject and lessen the likelihood of misconceptions. Some examples of this can be see below.

We write	We say
0.3	nought <b>point</b> three zero <b>point</b> three
3.45	three <b>point</b> four five (NOT three point forty - five)
98.4	ninety - eight <b>point</b> four
\$1.55	one dollar, fifty - five cents one dollar, fifty - five
1,000	one thousand
4,500	four thousand, five hundred
96,000	ninety - six thousand
450,000	four hundred and fifty thousand
\$6,300,000	six million, three hundred thousand dollar
1/2	a half OR one half
1/4	a quarter or one quarter
3/4	three quarters
1/3	a third OR one third
2/3	two thirds
1/5	a fifth OR one fifth
3/5	three fifths
1/8	an eighth OR one eighth
5/8	five eighths
1½	one and a half
5¾	five and three quarters



## Notation:

	We use	We do not use*	Why we do this
<b>Decimals</b>	4.5	4,5	Commas are used to separate between thousands
<b>Multiplication</b>	$3 \times 2 = 6$	$3 . 2 = 6$	3.2 could be confused with the number 3.2 (three point 2)
<b>Division</b>	$12 \div 6 = 2$ or $12/6 = 2$ or $\frac{12}{6} = 2$	$12 : 6 = 2$	The : is used to represent ratios. For example, Yuki and Ngan share \$20 in the ratio of 7:3.

\*We understand that this notation is not incorrect and would be perfectly viable in many Vietnamese settings. However, as our students study an international curriculum and are examined against international Mathematical practices, it is important that students learn the necessary notation.

Your child will also be provided with key vocabulary from their class teacher.

Please encourage your child to practice this language and notation at home to support the work that we do in school.

## 3. HOMEWORK INFORMATION

Homework will be set on the same day every week. New homework will not be set over the holidays, but it is expected that any outstanding homework is completed. Homework will be set on Sparx Maths, a link for this can be found at the end of this booklet.

The homework set on Sparx Maths will be relevant to what they are learning in school and will be personalised to your child to ensure they can access the work, whilst also being stretched and challenged.

Students are only expected to complete the Compulsory section of the homework. However, if they complete the XP Boost and Target sections, they will be awarded a Housepoint for their efforts. Each question has a help video which will support your child if they are struggling. If they are still unable to answer a question, please encourage them to seek further guidance from their Maths teacher.

We ask for your support in encouraging your child to meet their homework deadlines. If they fail to do so your child's Maths teacher will contact you to inform you of this.

Each topic on Sparx Maths has an Independent Learning code associated with it. Your child may want to choose some topics for further practice at home.

## 4. ASSESSMENTS

### Summative Assessment

Students will be summatively assessed at three points during the year: October, February and May. Exact dates will be communicated to students by their teachers in advance. Resources to support your child with their revision will also be shared before each Assessment Point.

### Formative Assessment

We will assess the students after each unit of learning to check their understanding and provide them with a personalised question level analysis (QLA) sheet, which will highlight the topics they will need to revisit. In Year 7, the formative assessments are topic-based. In Years 8 and 9 they contain a mixture of recent and prior learning.

**Example of a Year 7 end of topic assessment:**

### Year 7 Place Value LSQ NO CALCULATOR

#### Question 1

K6: Write a number greater than 1000 in words.

Write down the value of 327089 in words.

.....  
(1 mark)

#### Question 2

K5: Read a number greater than 1000 in words.

Write down the value of eight million two hundred and fifty-two thousand five hundred and ten.

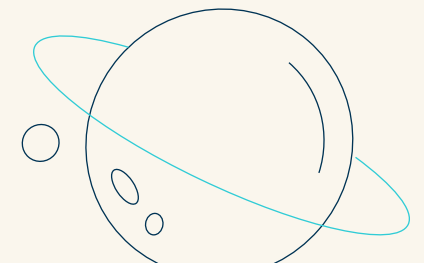
.....  
(1 mark)

#### Question 3

E2: Put worded numbers into figures or vice versa.

Write the number that is one hundred thousand less than six million.

.....  
(1 mark)





Example of a Year 8 or 9 end of topic assessment :

*For Examiner's Use*

1 A ferry to Crete leaves at 07.30.  
The journey takes 2 hours and 48 minutes.  
Work out the time when the ferry arrives in Crete.

Answer ..... [1]

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2 (a) Write the following in order, starting with the smallest.

0.43       $\frac{4}{9}$       41%

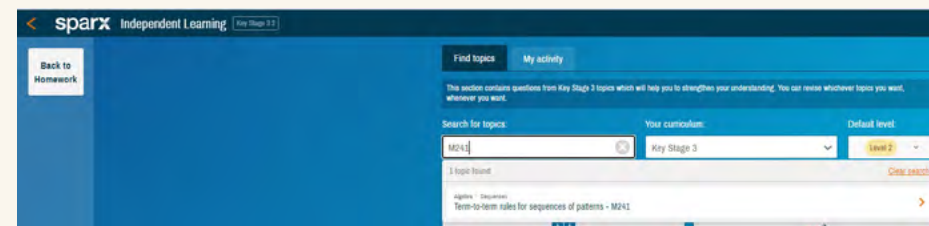
Answer(a) ..... < ..... < ..... [1]

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3 In a group of 35 students, 14 go to school by bus.  
Write down the probability that a student, chosen at random, does **not** go to school by bus.  
Give your answer as a fraction in its lowest terms.

Answer ..... [2]

To review this content, they can use the Independent Learning codes for each topic (e.g. M241) to complete the relevant Independent Learning lesson on Sparx Maths.



You can support your child by encouraging them to be proactive in reviewing this content.

## 5. ENRICHMENT OPPORTUNITIES OFFERED AT BVIS

Most students will sit the UKMT Maths challenge in every year at BVIS. This tests students' problem-solving and analytical skills against other students across the world and certificates are awarded for the highest-placed finishers.

The very best students in each year group will compete in Maths competitions across the city against other schools. This will take place two or three times each year and these students will be selected based on their in-school performance.

Selected students in Year 7 and 8 will be invited to an extra-curricular activity (ECA) to help prepare them for these competitions.

Example of Question Level Analysis (QLA) sheet :

Name: _____				
	Topic	Max	Actual	%
1a	Describe and continue a sequence given diagrammatically (M241)	1	1	✓100%
1b	Predict and check the next term(s) of a sequence (M381)	1	0	✗ 0%
2	Predict and check the next term(s) of a sequence (M381)	3	1	🚩 33%
3	Predict and check the next term(s) of a sequence (M381)	2	2	✓100%
4	Recognise the difference	1	1	✓100%
	Recognise the difference			

## 6. HELPFUL WEBSITES

- White Rose Mathematics (scheme of learning): <https://whiterosemaths.com/>
- Sparx Maths (used for homework and independent tasks). Homework is set every week: <https://sparx.co.uk/>
- Corbett Maths (all GCSE content, but a useful resources for extensions) <https://corbettmaths.com/>
- Myimaths (online lessons): <https://www.myimaths.com>
- Please note: Textbooks are not provided for KS3 students