



Year 5 White Rose Maths (WRM) Summer Scheme of Learning, 2018 Alignment with Mathletics

Year 5 – Yearly Overview

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Numb	er – Place	e Value	Number - and Sub	- Addition straction	Stati	istics	Multip	ber – lication ivision		ter and ea	Consolidation
Spring		r – Multip nd Divisio			N	umber – I	Fractions			Decin	ber – nals & ntages	Consolidation
Summer		Number -	- Decimal	s	Geomet	ry- Prope Shapes	rties of	Geometry- Position and Direction	Measur Converti		Measures Volume	Consolidation

This alignment document has been based on the White Rose Maths (WRM) scheme of learning available on the TES website.

www.mathletics.com

# Mathletics

# Content

## **Examples of alignment to Mathletics**

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## **Purpose:**

The aim of this document is to support Mathletics teachers, who use the WRM scheme of learning, to make full use of the resources available within Mathletics. Whenever possible, activities, pages from the eBooks or learning experiences on Rainforest Maths have been matched to each of the small steps on the WRM scheme of learning.

In Mathletics, many eBooks are available in the student interface, however all eBooks are available to teachers through the teacher console. These topic-based eBooks contain practice and fluency exercises, along with application questions and games. Only a small selection of the relevant pages has been added to the document.

Links to Rainforest Maths, which can be found in the 'Play' area in the Mathletics student interface, have also been included as this resource has great visuals which work well on interactive whiteboards and gives pupils further opportunities to practice their learning online.

## Course selection:

A specific Mathletics course has been created in alignment with the WRM Summer scheme of learning. You may wish to set this course for your class/groups.

## England Yr 05 WRM Aligned





# Examples of alignment to Mathletics Block 1 (Weeks 1–4) Number: Decimals

**Mathletics** 

WRM Small Steps
Decimals within 1 eting Decimals within 1 ements to 1 — Crossing the Whole — Same Decimal Places et — Same Decimal Places = Different D.P eting — Different D.P and Decimals al Sequences by 10, 100 and 1,000 by 10, 100 and 1,000

## Small step: Complements to 1



#### **Topic: Decimals**

#### Activity: Decimal Complements

In this activity pupils find pairs of decimals that add to 1 whole. The easier level begins with tenths before moving to hundredths. The support area uses a number line to show pupils the strategy of jumping to the next tenth and then adding tenths to make 1 whole.

#### Small step: Adding – Crossing the Whole



# eBook, F series: Fractions, Decimals and Percentages, page 37

Pupils are shown how to set out a calculation when adding decimals. They complete exercises to practise additions of decimals, including those where the tenths add up to more than 1.

# Rainforest Maths – Level D – Decimals –adding decimals

Pupils are shown a completed example of a calculation where decimals are added. Using the prompts to help, they complete examples and check to see if their answers are correct.

# **Mathletics**

#### Small step: Adding – Same Decimal Places





#### eBook, F series: Fractions, Decimals and Percentages, page 37

Calculation exercises are set out for pupils to complete, modelling the importance of lining up digits with the same place value.

Exercise 3 includes the addition of decimals with tenths and hundredths.

### Rainforest Maths – Level E – Decimals – adding decimals

Pupils add 2 numbers with the same number of decimal places (2 decimal places). All questions require making exchanges.

#### Small step: Subtract – Same Decimal Places

- 4.5

- 3.5

f 0, 04

- 3.7



How do we subtract decamal fractions using a written strategy? We arrange the numbers so the place values line up and then we start with the smallest values. We have 2 tesths, can we subtract 5 tesths from the? We first subtract the tesths. We have 2 tesths, can we subtract 5 tesths from the? S tesths is 7 tenths. We have 5 once, can we subtract 4 once? Yes, the answer is 1 one. 1 . 7

ь 🛛 4 🖓

- 3.4

e D<sub>1</sub> D<sub>8</sub> D<sub>6</sub>

- 1 1 . 2

Calculating – subtracting decimal fractions

- 2 . 2

d 0, 0, 0,

- 5.2

### **Topic: Decimals** Activity: Subtract Decimals 1

Pupils subtract 2 decimals using the written method. All questions involve decimals with the same number of decimal places.

#### eBook, F series: Fractions, Decimals and Percentages, page 39

Pupils are shown an example of a subtraction calculation with decimals, where a 1 needs to be exchanged to tenths to complete the answer. Pupils then complete exercises to practise this concept.



#### Rainforest Maths - Level D - Decimals - subtracting

Pupils are shown an example of a calculation where decimals are being subtracted. They are prompted to show where regrouping, trading or exchanging is needed as they complete the answer. By selecting 'check', each digit in the answer is ticked, enabling students to pinpoint their errors.

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## Small step: Subtracting – Different D.P



## Topic: Decimals

### Activity: Subtract Decimals 2

Pupils use the written method to subtract 2 decimals, including decimals with a different number of decimal places. The support area reinforces the need to line up the decimal points.

# **Mathletics**

#### 5.23 - 3.202 = 2.028 **Topic: Decimals** Activity: Subtracting Decimals 5.230 - 3.202 Pupils use the written method to subtract 2 decimals, 2.028 including decimals with a different number of decimal places. The support area reinforces the need to line up the decimal points. Back 🛞 Calculating – subtracting decimal fractions Use a me ten strategy of your ch eBook, F series: Fractions, Decimals and Percentages, a 27.47-16.277 b 13.75-9.25 pages 39-40 In exercise 4, pupils complete questions that involve subtracting decimals with different numbers of place values. Pupils also answer questions presented as word problems to further apply their understanding.

#### Small step: Decimal Sequences



#### Rainforest Maths – Level E– Decimals – patterns

Pupils are shown a sequence of decimals and asked to continue the identified pattern. Patterns include sequences of adding 0.1, 0.2, 0.3 and 0.5.

### Small step: Multiply by 10, 100 and 1,000



Activity: *Multiply Decimals: 10, 100, 1000* Pupils multiply decimal numbers by 10, 100 and 1,000. The

**Topic: Decimals** 

support area demonstrates the movement of the numbers along the place value chart.

Calculating – multiplying decimals by 10, 100 and 1,000

1	When we multiply by 10 the num	ber becomes larger by 1 place v	alue.
	When we multiply by 100 the nu	mber becomes larger by 2 place	values.
	When we multiply by 1,000 the	number becomes larger by 3 pla	ce values.
	Look what happens to 45.216 wh	en we apply these rules:	
	45.216 × 10 = 452.16	45.216 × 100 = 4,521.6	45.216 × 1,000 = 45,216
0			t your answers to the following then tr ng. The first one has been done for you ones
	What place values are in your an	swers? Multiply by 10:	
	a these ones: 6, 3, 1		t 60, 30, 10 (tens)
	b these tenths: 0.6, 0.3 and 0.1		¢
	c these hundredths: 0.06. 0.03	and 0.01 We ge	t

... we get

d these ones and tenths: 1.6, 2.3 and 3.4 ...

# eBook, G series: Fractions, Decimals and Percentages, page 36

The strategy for multiplying decimals by 10, 100 and 1,000 is explained and modelled. Pupils apply their understanding to a range of exercises.







# Examples of alignment to Mathletics Block 2 (Weeks 5–7) Geometry: Properties of Shape

National Curriculum Objectives	WRM Small Steps
Identify 3D shapes, including cubes and other cuboids, from 2D representations.	
Use the properties of rectangles to deduce related facts and find missing lengths and angles.	<ul> <li>Measuring Angles in Degrees</li> <li>Measuring with a Protractor (1)</li> </ul>
<ul> <li>Distinguish between regular and irregular polygons based on reasoning about equal sides and angles.</li> </ul>	<ul> <li>Measuring with a Protractor (2)</li> <li>Drawing Accurately</li> </ul>
Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles.	<ul> <li>Angles on a Straight Line</li> <li>Angles Around a Point</li> </ul>
<ul> <li>Draw given angles, and measure them in degrees (°).</li> </ul>	<ul> <li>Lengths and Angles in Shapes</li> <li>Regular and Irregular Polygons</li> </ul>
Identify: angles at a point and one whole turn (total 360°), angles at a point on a straight line and <sup>1</sup> / <sub>2</sub> a turn (total 180°) other multiples of 90°.	Reasoning about 3D Shapes

Small step: Measuring Angles in	Degrees
Acute Angle	Topic: Properties of Shapes Activity: What Type of Angle? In this activity pupils identify if an angle is acute, a right angle or obtuse. The support area provides a reminder of the sizes of those 3 angle types.
Acute Angle	Topic: Properties of Shapes Activity: <i>Classifying Angles</i> Pupils classify a given angle as right, obtuse, straight, reflex or a revolution. The support area provides a reminder of the sizes of those 6 angle types.
The best estimate for the angle is:	Topic: Properties of Shapes Activity: <i>Estimating Angles</i> Pupils use their knowledge of different angle types to estimate the size a given angle.





# **Mathletics**



#### Rainforest Maths - Level F - 2D Shapes - angles

Clicking on 'more' at the bottom left-hand corner opens this screen, where pupils can drag the protractor onto the angle and carefully measure the shown angle. Instant feedback enables pupils to try again if their answer is incorrect.

#### Small step: Drawing Accurately

#### Lines and angles – measuring angles

Use a protractor to complete these angles. One line is drawn for you. You need to measure and draw the other line. Draw it about the same length as the other line. Mark the angles with the measurements



#### eBook, F series: Geometry, page 5

Pupils are shown a set of lines. They are then invited to use protractors and rulers to carefully draw given angles.

## Small step: Angles on a Straight Line



#### Rainforest Maths – Level G – 2D Shapes – angles

Clicking 'more' at the bottom right-hand corner enables pupils to move through a series of exercises exploring angles. After calculating the missing angle in a shape, selecting 'next' opens exercises where pupils calculate angles on a straight line.

### Small step: Angles Around a Point





### Topic: Properties of Shapes Activity: *Angles in a Revolution*

Pupils calculate the value of one of the angles forming a revolution. The support area reminds pupils that the angles forming a revolution add to 360°.

### eBook, E series: Geometry, page 6

Pupils use their knowledge of the size of an angle of revolution to calculate the degrees between each 5 minutes on an analogue clock. They are then asked to identify the angle sizes of various times shown. Mathletics

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#### Rainforest Maths – Level G – 2D Shapes – angles

Clicking on 'more' at the bottom right-hand corner move pupils on from calculating a missing angle on a straight line, to calculating the missing angle around a point. Pupils enter their answers and receive immediate feedback.

### Small step: Lengths and Angles in Shapes

# 

#### Rainforest Maths – Level G – 2D Shapes – angles

Pupils are shown examples of 2D shapes, with a description of the rules that their angles follow. A related example then challenges pupils to apply this information in calculating a missing angle.

### Small step: Regular and Irregular Polygons



#### eBook, F series: Geometry, page 7

The term 'polygon' is explained and examples of both regular and irregular polygons are shown. Pupils secure their understanding with exercises where they need to determine if the shapes illustrated are polygons and if they are regular or irregular polygons.



#### Mathletics Dictionary - Concept Search - polygon

Concept Search provides an excellent slide show for use on the interactive whiteboard, or for pupils to work through independently. A full range of regular polygons are illustrated and their features are described.



#### Rainforest Maths – Level G – 2D Shapes – polygons

This table provides pupils with an excellent reference tool, illustrating and describing a full range of 2D shapes. Clicking on the black shapes opens up a more detailed description and illustration.

Small step: Reasoning about 3D	Shapes
Select a property. The point where two or more vertex	Topic: Properties of Shapes Activity: <i>Faces, Edges and Vertices 1</i> Pupils are asked to identify the property represented on a 3D shape including faces, edges, vertices and bases.
A face is a flat surface. 6 faces rectangular prism Soloct: Back ©	Topic: Properties of Shapes Activity: <i>How Many Faces?</i> Activity: <i>How Many Edges?</i> Activity: <i>How Many Vertices?</i> In these activities pupils are shown a 3D shape and are asked to identify the number of faces, edges or vertices.
3D shopes - introduction 2D shopes have 2 dimensions - width and height. They're flit. 3D shopes have 3 dimensions - width and height. They're flit. 3D shopes have 3 dimensions - width and shopes. 3D shopes have 3 dimensions is one can be all all bits into all context is one should be all bits into all context is one can be all all bits into all context is one can be all all bits into all context is one can be all all bits into all context is one can be all all bits into all context is one can be all all bits into all context is one can be all all bits into all context is one can be all all bits into all context is one can be all all bits into all context is one can be all all bits into all context is one can be all all bits into all context is one can be all all bits into all context is one can be all all bits into all context is one can be all all bits into all context is one can be all all bits into all context is one can be all all bits into all context is one can be all bits into all context is one can be all bits into all context is one can be all bits into all context is one can be all bits into all context is one can be all bits into all context is one can be all bits into all context is one can be all bits into all context is one can be all bits into all context is one can be all bits into all context is one can be all bits into all context is one can be all bits into all context is one can be all bits into all context is one can be all bits into all bits into all context is one can be all bits into all context is one can be all bits into all context is one can be all bits into all bit	<b>eBook, F series: Geometry, pages 18–23</b> Following on from a concise explanation of 3D shapes, pupils explore a range of 3D shapes and identify and label their properties. On pages 22–23 pupils explore the cross sections of 3D shapes. They are then encouraged to visualise what a cross section would look like and match it to given shapes.
3D Objects See	Mathletics Dictionary – Concept Search – polygon Concept Search provides a slide show which clearly illustrates 3D shapes and describes their properties.
3D shapes nets. What shape is my net? Click the right shape.	Rainforest Maths – Level G – 3D Shapes The 3D shapes topic in Level G of Rainforest Maths includes several tasks that involve reasoning about the relationship between 2D shapes and 3D shapes. Pupils are asked to identify nets, identify the corresponding shape for a given view of a 3D shape and identify the shape of cross- sections.



# Examples of alignment to Mathletics Block 3 (Week 8) Geometry: Position & Direction

National Curriculum Objectives	WRM Small Steps
Identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed.	<ul> <li>Position in the 1st Quadrant</li> <li>Reflection</li> <li>Reflection with Co-ordinates</li> <li>Translation</li> <li>Translation with Co-ordinates</li> </ul>

## Small step: Position in the 1st Quadrant



## Topic: Position and Direction Activity: *Coordinate Graphs: 1st Quadrant*

Pupils record the coordinates for a given point on a coordinate graph. The support area reminds pupils that the *x* coordinate is recorded first.

Position – coordinates

a (4,1)

b (6, 6)

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In maths we often use grids like this. The horizontal and vertical lines at the edges are called the axes.	6					
The horizontal line is the x axis and the vertical line	-					
is the y axis. Each axis is labelled with numbers.	5				_	
These sit on a line.	4		-		-	
Coordinates are a way of describing a specific point on a grid. They will always refer to a point where	3		+		-	
two lines cross.	2		-		-	
If we want to describe a particular point we always write the <i>x</i> coordinate first, followed by the <i>y</i>	1		+	$\vdash$	+	
coordinate. So, the point shown above is (2,4).	0	1 2	3	4 5	6	X

eBook, F series: Geometry, pages 30–36

Pages 30–34 explore coordinates where 2 lines intersect. Pupils mark points using the given coordinates, as well as record coordinates of given points. They then move on to using a series of coordinates to map points and join them to create shapes.

Pages 35–36 explore coordinates on maps. Pupils are challenged to read the maps and identify the coordinates of specific features.



Rainforest Maths - Level F - Position - coordinates

This page provides a useful map featuring coordinates. It is particularly useful to be shown on a screen for the class to explore, finding the location of different features using coordinates. Individual students can answer the questions on the page, entering the coordinates of features.

# **Mathletics**

## Small step: Reflection Small step: Translation





# Examples of alignment to Mathletics Block 4 (Weeks 9–10) Measurement: Converting Units

National Curriculum Objectives	WRM Small Steps
<ul> <li>Convert between different units of metric measure [for example, km and m; cm and m; cm and mm; g and kg; I and mI].</li> <li>Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints.</li> </ul>	<ul> <li>Kilograms and Kilometres</li> <li>Milligrams and Millilitres</li> <li>Metric Units</li> <li>Imperial Units</li> <li>Converting Units of Time</li> <li>Timetables</li> </ul>
Solve problems involving converting between units of time	









# **Mathletics**

such as ounces, pounds, stone and		'imperial' measurements,	eBook, F
measurements relate to metric me		approximately	This page
Mass	1 ounce = 28.35 g	30 g	
1 pou	nd (16 ounces) = 0.45 kg	0.5 kg	imperial (
1 sto	ne (14 pounds) = 6.35 kg	6.5 kg	Exercises
Capacity	1 pint = 0.57 l	0.61	convertin
<ul> <li>Using the approximate equivalent         <ul> <li>a 2 pounds =</li> <li>kg</li> <li>c 3 pints =</li> </ul> </li> </ul>	ts, convert these imperial measure b 4 stones d 6 ounces	= kg	including to kilogra
Most measurements used today i and thousands. However, you will as stone, pounds, pints, yards, fee in miles rather than kilometres. Ti relate to metric measurements. Length	still sometimes come across old t and inches, and all road signs s terefore, it's useful to know how	d 'imperial' measurements, such still measure longer distances	<b>eBook, F</b> This page

### eBook, F series: Volume, Capacity and Mass, page 13

This page explains the relationship between metric and imperial units of measurement for mass and capacity. Exercises provide pupils with examples to practise converting between metric and imperial measurements, including ounces to grams, pounds to kilograms and stones to kilograms.

#### eBook, F series: Length, Perimeter and Area, page 7

This page provides a table of conversions between metric and imperial units of measurement for length, mass and capacity. Exercises give pupils the opportunity to apply these facts to convert between metric and imperial units and match equivalent measurements.

### Small step: Converting Units of Time



## Topic: Converting Units

#### Activity: Time Conversions with Simple Fractions

Pupils are encouraged to convert between seconds and minutes or minutes and hours by generating and recognising multiples of 60 and recalling simple fractions (1/4, 1/2, 3/4) of an hour or minute.

Measuring time – time relationships





#### eBook, F series: Time, page 1

This page provides pupils with a comprehensive table showing the relationships between units of time. Pupils use this information to complete exercises which involve converting between different units of time and considering the most appropriate units to use in a range of circumstances.

### Rainforest Maths – Level F– Time – Time Facts

This page provides a detailed table to support pupils in converting between different units of time. Pupils complete conversion questions using the information shown.



### Small step: Timetables

**Mathletics** 



## Topic: Converting Units Activity: *Time Zones*

Pupils read and interpret a flight timetable to solve problems such as arrival times and time differences.

#### eBook, F series: Time, pages 14-17

Pupils are presented with a range of timetables from reallife contexts, including travel times, TV schedules and a class timetable from a fitness club. Questions involve pupils in finding the relevant information and using it to provide answers.

On page 17, pupils use a transport timetable to calculate the time spent travelling between different locations.

	RAINF	OREST TO	UR5 - DAI	LY TIMETA	BLE	-
$\mathbf{\nabla}$	Location	TOUR 1	TOUR 2	TOUR 3	TOUR 4 p.m.	
pue to	Rainforest Resort	7:30	8:30	12:30	2:30	1
Itol	Misty Falls	8:00	9:00	1:00	3:00	
:25	Fan Palm Forest	8:50	9:50	2:00	4:00	•
hour	Crocodile Creek	9:15	10:15	2:30	4:15	
p.m.)	Giant Fig Tree	9:30	10:30	2:45	4:30	
Focts	Crystal Lake	9:45	10:45	3:00	4:45	
uiz	Cassowary Corner	10:15	11:15	3:45	5:00	
ar -	Wildlife Sanctuary	10:30	11:45	4:00	5:30	
obles	What time d	_	3 leave Rai	nforest Re		check next

a What time does the 10 to 6 train from Burwood arrive at Ashfield?
 b I have just missed the 5:35 train from Ashfield. How long do I have to wait until the next train?

c I live in Croydon and I want to get to Lewisham by 6:30. Which train should I get?

5:48 5:55 6:18 7:45 8:54

#### Rainforest Maths - Level F- Time - timetables

This page provides a good example of a timetable which could be shown to a class on an interactive whiteboard. Pupils use the timetable to answer the questions, receiving immediate feedback. If mistakes are made, pupils can enter a new answer before moving on.



# Examples of alignment to Mathletics Block 5 (Week 11) Measurement: Volume

National Curriculum Objectiv	ves	WRM Small Steps	
<ul> <li>Estimate volume [for example using lcm<sup>3</sup> blocks to build cuboids (including cubes)] and capacity [for example, using water].</li> <li>Use all four operations to solve problems involving measure.</li> </ul>		<ul> <li>What is Volume?</li> <li>Compare Volume</li> <li>Estimate Volume</li> <li>Estimate Capacity</li> </ul>	
Small step: What is Volume?			
How many blocks? Blocks Layers 12 × 4 Total = 48 blocks Multiply to calculate the answer.	Pupils are total num	<i>Iow many Blocks?</i> encouraged to use multiplication to find the ber of blocks used to form a 3D shape. Easier use rectangular prisms. Harder questions include	
Find the volume of the solid.			
All cubes are 1 cm <sup>3</sup> . Volume = cm <sup>3</sup>	Pupils cou	l <b>ume</b> <i>(olume of Solids and Prisms — 1 cm<sup>3</sup></i> Int the total number of blocks in solids and prisms. The is recorded in cm <sup>3</sup> units.	
c c c c c c c c c c c c c c c c c c c	Pupils me	<b>eries: Volume, Capacity and Mass, page 5</b> asure the volume of solids by counting the f cm <sup>3</sup> blocks.	
Volume and copacity – cubic centimeters (cm²)         Notice is the server of space accepted by an abject or solution;         A commonly used und of visual is the cubic centioners;         A commonly used und of visual is the cubic centioners;         Definition of the server of the se	This page introduces In this pair	eries: Volume, Capacity and Mass, page 3 explains the concept of measuring volume and s the measurement of a cubic centimetre. (cm <sup>3</sup> ) red activity, pupils use centimetre blocks to create and explore their volumes, completing a table with ags.	

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# Rainforest Maths – Level F – Volume – cubic centimetres

Pupils are shown a series of block prisms and record the length, breadth and height of the prism. They calculate the volume and can see the relationship between the volume and number of centimetre cubes they can count.

## Small step: Compare Volume



#### eBook, F series: Volume, Capacity and Mass, page 6

In this practical activity, pupils create 3 lidless containers using squared paper, cut into 12 cm squares.

Pupils calculate the volume of each box and compare them.

The task is extended with a challenge to create further boxes and to explore patterns and make predictions.

# Small step: Estimate Capacity



### Rainforest Maths – Level F – Capacity – millilitres

This activity supports pupils in understanding the link between capacity and volume.

The activity can be used to support pupils in making estimations of the capacity of containers.

# **Mathletics**

What's in level 4?		
Addition from 1 - 100	Subtraction from 1 - 100	
35 + 30 + 10 = ?	30 - 6 = ?	
Times tables to 10 × 10	Doubles and halves up to 100	
8 × 6 = ?	Half of 96 = ?	
2s, 3s, 4s, 5s and 10s division facts	Addition from 1 - 50 with a missing addend	
30 + 3 = ?	25 + ? = 50	
Times tables to 10 × 10 with a missing factor		
7 × ? = 49		

Live Mathletics engages pupils in 60-second real-time games, testing speed and accuracy of maths facts.

To support progress in Year 5, encourage pupils to use Level 4 and 5 of Live Mathletics.

Teachers can set minimum levels on Live Mathletics by clicking the 'switch to old Mathletics' button, selecting **Results** and selecting **Minimum levels** on the left-hand side of the page. Students can still access higher levels once you set a minimum level, so encourage students to challenge themselves and move on to the next level when they are ready.

(Note: Live Mathletics levels are a sliding scale, with no relationship to classes or old National Curriculum levels. As a resource which is also used in secondary schools, the levels from 6 upwards are intended for older students.)

When assigning activities with calculations that do not have spaces for recording any working out, consider getting pupils to record their thinking strategies in their Maths books or on a whiteboard, before answering the question in Mathletics. Pupils can then self-mark their work after each question. If they have made a mistake, they can correct their work using the support feature in the activities. Instant feedback and learning!











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