

Year 2 Summer Term 2021

This document could be used by all schools to support teachers in planning learning in all domains of mathematics during the summer term 2021. It is based on the Hampshire Scheme of Learning (HSL), which is available to schools subscribing to Moodle Plus (<https://maths.hias.hants.gov.uk>). It does not include all national curriculum statements (bold). Some additional maths team objectives included as suggestions. Teachers will need to adapt these plans based on prior planning and assessment.



The careful sequencing of domains encourages pupils to make links across domains and supports teachers' use of effective strategies supporting recall of learning, particularly spaced practice and retrieval practice, identified through cognitive psychology research (Weinstein, Sumeracki and Caviglioli, 2019). It is important that children are prompted to access their memories of prior teaching and learned knowledge during periods of remote teaching.

The number of lessons provides a suggested structure, based on hourly lessons.

It will be important for teachers to plan a sequence of a few key tasks and linked skills practise as a 'learning journey' for each unit of work. Pupils will need support to understand the problem and have examples of how to record their solutions. Further examples of similar problems to the key task, using variation techniques, will support pupils to develop confidence and independence with each task.

This document also shows where 'Ready -to- Progress' criteria (RTPs) from the DFE Teaching Mathematics: Guidance for Key Stage 1 and 2 (June 2020)* document could be used to support review, practice, and consolidation. The National Centre for the Teaching of mathematics (NCETM) has produced resource materials to support the RTPs. Each RTP has linked resources, including power point slides, which could be used to support modelling of key mathematical concepts

*(DfE Mathematics Guidance: Key stage 1 and 2, June 2020, <https://www.ncetm.org.uk/in-the-classroom/teaching-maths-through-the-pandemic/support-with-2020-dfe-guidance/>)

The NCETM supporting resource materials can be found at:

<https://www.ncetm.org.uk/classroom-resources/exemplification-of-ready-to-progress-criteria/>

Points to consider when using RTP resources:

They should be used flexibly, guided by pupils' response, repeating activities where pupils lack confidence. Materials from Year 1 may support addressing gaps and misconceptions for whole class, small groups or 1:1 focused intervention. The ready-to-progress criteria are intended as goals for the end of the year.

Summer 1

Measurement: **Find everyday opportunities to tell the time (talk about intervals of time, 24 hours in day, 60 mins in an hour, 30 mins in half an hour etc)**

Lessons	Domains	Objectives (HSL Unit 2.10)	DfE RTPs
15	Multiplication and division	<ul style="list-style-type: none"> • Count reliably in 2s, 5s and 10s from zero, forward or backward. Show on a number-line. • Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odds and evens. • Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods. • Use the multiplication (x) and equals (=) signs to show solutions alongside other representations e.g. arrays and number-lines. • Rehearse together and use the language of 'How many groups of 2 (5, 10) are there?' ~ 'There are 3 groups of 2 (5,10)' • Share objects equally by counting how many in each group and record pictorially (arrays). Recognise the link with multiplication facts represented as arrays. 	2MD – 1 2MD - 2

Lessons	Domains	Objectives (HSL Unit 2.12)	DfE RTPs
20	NPV Addition and subtraction	<ul style="list-style-type: none"> • Recognise the place value of each digit in a 2-digit number (10s, ones) • Identify, represent and estimate numbers using different representations including the number line and in the context of number, quantity and measure. • Compare and order numbers from zero up to 100; using < , > and = signs • Read and write numbers to at least 100 in numerals and in words • Use place value and number facts • Solve problems with addition and subtraction applying their increasing knowledge of mental and written methods • Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 • Add and subtract numbers using concrete objects, pictorial representations and mentally including: a 2-digit number and ones; a 2-digit number and tens; two 2-digit numbers; adding three 1-digit numbers. • Show that addition of two numbers can be done in any order and subtraction of one number from another cannot • Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and missing number problems. 	2AS – 1 2AS – 2 2AS – 3 2AS - 4

Summer 2

Lessons	Domains	Objectives (HSL Unit 2.13)	DfE RTPs
10	Fractions Multiplication and division	<ul style="list-style-type: none"> • Recognise, find , name and write fractions $\frac{1}{3}$, $\frac{1}{4}$, $\frac{2}{4}$ and $\frac{3}{4}$ of a length , shape, set of objects or quantity • Write simple fractions e.g. $\frac{1}{2}$ of 6 = 3 and recognise the equivalence of $\frac{2}{4}$ • Solve problems involving multiplication and division using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts • Recall and use multiplication and division facts for the 2,5,and 10 multiplication tables, including recognising odd and even numbers • Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (x) , division (\div) and equals (=) signs • Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot. 	2MD-1 2MD - 2

Lessons	Domains	Objectives (HSL 2.14)	DfE RTPs
10	Measure	<ul style="list-style-type: none"> • Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change. • Recognise and uses symbols for pounds (£) and pence (p); combine amounts to make a particular value. • Find different combinations of coins that equal the same amounts of money • Choose and use appropriate standard units to estimate and measure length / height in any direction (m / cm); mass (kg/g); temperature ($^{\circ}$C); capacity (l/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels. • Compare and order lengths, mass, volume/capacity and record the results using more (>) than, less than (<) and equals (=). • Compare and sequence intervals of time • Tell and write the time to 5 minutes, including quarter past/to the hour and draw the hands on a clock face to show these times. • Know the number of minutes in an hour and the number of hours in a day. 	2AS – 1 2AS – 2 2AS – 3 2AS - 4

Lessons	Domains	Objectives (HSL 2.15)	DfE RTPs
5	Geometry	<ul style="list-style-type: none"> • Recognise and name common 2-D shapes, including squares, circles, rectangles and triangles • Recognise and name 3-D shapes, including cuboids, pyramids and spheres. Describe position, directions and movements including half, quarter and three-quarter turns. 	2G-1