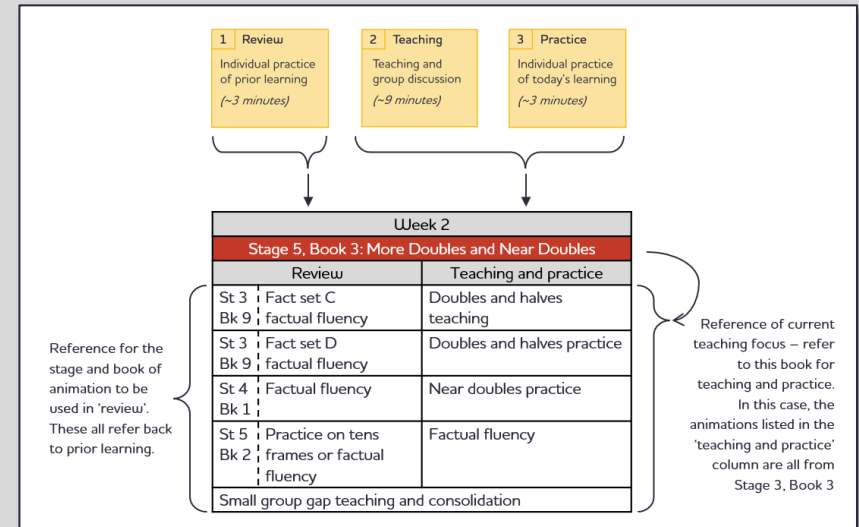




For each day we indicate one animation to use in the **review** section of the session, and a second animation to use in the **teaching and practice** parts of the session.

Small group gap teaching and consolidation



Stage 4 Book 1 Teaching Progression		
<p>The numbers 11 – 20 are made up of Tens and Bk. Recognising and understanding the Tens and Bk structure of these numbers enables easy calculation of addition and subtraction facts involving these consecutive pairs. eg. 3 + 10 = 13, 17 - 7 = 10, 12 - 10 = 2</p>		
<p>In Stage 3 the children learn strategies for all of the within 10 facts. Stage 4 is much shorter - just one book - and starts teaching across 10 facts. In Number Sense Maths we spend time teaching the children how to represent facts for those numbers. For the standard English name (eg. thirteen, sixteen), and then what we call the 'structure' name (ten three for thirteen and ten six for sixteen etc.). When children are fluent in the structural names, then they will have a strong sense of how ten and a bit makes these numbers and as a result the Ten and a Bit addition and subtraction calculations follow relatively easily.</p> <p>The within 10 facts taught in Stage 3 should be revisited in lessons with the children every day, and our daily guide guide you to do this. This regular structural/practical practice will mean it takes less and less effort for children to remember and apply the Stage 3 strategies, and children's fluency in within 10 facts will continue to develop.</p>		
<p><b>Prior knowledge starting point:</b> Children need to be able to represent tens frames arrangements of questions to 10, pronounced both tens and ones-ones, which they have had plenty of practice doing too.</p>		
<p><b>Learning outcome 1:</b> Children understand they are learning a defined set of facts.</p>	<p><b>Animation 1: Grids build-up</b> This animation visually summarises the facts children need to be fluent in. The facts they already have a strategy for (all of the within 10 facts) are covered by the strategy. It gives children a sense they are building towards full factual fluency and where they are on the journey towards this. This is the final set of facts that you will teach in Year 1.</p>	
<p><b>Learning outcome 2:</b> Children can count forwards and backwards through mixed numbers, using both English names and structural names.</p>	<p><b>Animation 2: Dual counting</b> This animation supports children to make a connection between the English name of numbers (eg. 'twelve') and the structure (in this case, ten and a bit) by matching ten different ways to count through the same numbers using both English names (eg. thirteen, sixteen), and also what we call the 'structural' name (ten three for thirteen and ten six for sixteen).</p>	<p><b>Example image from animation:</b></p>
<p><b>Learning outcome 3:</b> Children can recognise questions 11 to 20 when organised in tens frames in a ten and a bit structure.</p>	<p><b>Animations 3, 4 &amp; 5: Conceptual labelling with names and numerals. Other ten and a bit models</b> These animations support children to be able to both say a name and write the numeral for ten and a bit numbers when shown a ten and a bit structure. They support pupils to continue linking the structure (ten and a bit) to the English name (twelve), and also show the numeral '12'. The second animation introduces how to write the numerals used to represent ten and a bit numbers.</p>	<p><b>Example image from animation:</b></p>
<p><b>Learning outcome 4:</b> Children can identify missing parts or values in ten and a bit calculations.</p>	<p><b>Animation 6: Parts and wholes</b> This animation children's knowledge of the ten and a bit structure of numbers to combine a ten and some ones, or partition a ten and a bit number into ten and some parts.</p>	<p><b>Example image from animation:</b></p>
<p><b>Learning outcome 5:</b> Children use their knowledge of the ten and a bit structure to solve calculations such as 10 + 5, 9 + 10, 15 - 9 and 15 - 10</p>	<p><b>Animations 7, 8, 9 &amp; 10: Ten and a bit calculations</b> These animations bring equations in for the first time. Like all of our other books, children have developed the understanding they need to add and subtract using before meeting the equations. The equations are just used to represent something the children already know. The ten and a bit animation models to make the link right. The first two animations provide practice solving equations in and out of context.</p>	<p><b>Example image from animation:</b></p>

Within the Teaching Resources section of the Teacher Portal there is a **teaching progression summary** for each book.

This provides pedagogical guidance for the book, and outlines learning outcomes for the children, matched to the teaching animations. This tells you what to focus on as you progress through the teaching animations for each book.

To be ready to teach, we suggested you have printed out and to hand:

- The relevant half termly overview from these plans so you know what animations to use each day
- The progression summary for the book you are teaching that week so you know what mathematics to draw out of them.

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	
Autumn 1	Stage 1 & 2 (review)	Stage 3 Books 1 – 3 (review)	Stage 3 Books 4 – 6 (review)	Stage 3 Books 7 & 8 (review)	Stage 3 Book 9 (review)	Stage 4	Stage 3 Stage 4	
	Subitising and partitioning	-One More, One Less -Two More, Two Less -Number 10 Fact families	-Five and A Bit -Know About Zero -Doubles and Near Doubles	-Number Neighbours -7 Tree 9 Square	Strategy Selection	Ten and A Bit	Gap teaching and consolidation	
Autumn 2	Stage 5	Stage 5	Stage 5	Stage 5	Stage 5	Stage 5		
	Make Ten and Then: Addition	Make Ten and Then: Addition	Make Ten and Then: Addition	Make Ten and Then: Subtraction	Make Ten and Then: Subtraction	Make Ten and Then: Subtraction		
Spring 1	Stage 5	Stage 5	Stage 5	Stage 5	Stage 5	Stage 5		
	More Doubles and Near Doubles	More Doubles and Near Doubles	More Doubles and Near Doubles	Adjusting	Adjusting	Adjusting		
Spring 2	Stage 5	Stage 5	Stage 5	Stage 6	Stage 6	Stage 6		
	Strategy Selection	Strategy Selection	Strategy Selection	Calculating with Multiples of 10	Two-Digit Numbers: Calculating with Ones	Two-Digit Numbers: Calculating with Tens		
Summer 1	Stage 6	Stage 6	Teacher decision on use of sessions over period of KS1 SATs					
	Make the Next Ten and Then	Make the Previous Ten and Then						
Summer 2	Stage 5	Stage 5	Stage 5	Stage 5	Stage 5	Stage 5	Stage 5	
	Stage 6	Stage 6	Stage 6	Stage 6	Stage 6	Stage 6	Stage 6	
	Small group gap teaching and consolidation	Whole class gap teaching and consolidation	Small group gap teaching and consolidation	Whole class gap teaching and consolidation	Small group gap teaching and consolidation	Whole class gap teaching and consolidation	Small group gap teaching and consolidation	

Note: This term is review. Read progression summaries for each book although only two days on each. As much for you as for children.

Week 1				Week 2				Week 3			
Stage 1 (review)				Stage 3, Books 1 – 3 (review)				Stage 3, Books 4 – 6 (review)			
Stage 1 (review)											
Review		Teaching and practice		Review		Teaching and practice		Review		Teaching and practice	
St 1 Bk 2	Subitising 1 - 10	St 2 Bk 3	Arrangements of 10 dots*	St 1 Bk 2	Subitising 1 - 10	St 3 Bk 1	Factual fluency	St 3 Bk 3	Cumulative practice	St 3 Bk 4	Practice animation
St 1 Bk 3	Tens frames 1 - 10 twos-wise	St 2 Bk 4	Arrangements of 6 dots*	St 1 Bk 3	Tens frames 1 - 10	St 3 Bk 2	Practice animation	St 3 Bk 3	Cumulative practice	St 3 Bk 4	Factual fluency
St 1 Bk 3	Tens frames fives-wise	St 2 Bk 5	Arrangements of 7 dots*	St 1 Bk 3	Tens frames 1 - 10	St 3 Bk 2	Factual fluency	St 3 Bk 4	Cumulative practice	St 3 Bk 5	Factual fluency
St 1 Bk 3	Tens frames 1 - 10	St 2 Bk 6	Arrangements of 8 dots*	St 3 Bk 2	Cumulative practice	St 3 Bk 3	Practice animation	St 3 Bk 5	Cumulative practice	St 3 Bk 6	Practice animation
St 1 Bk 3	Tens frames 1 - 10 with gaps	St 2 Bk 7	Arrangements of 9 dots*	St 3 Bk 2	Cumulative practice	St 3 Bk 3	Factual fluency	St 3 Bk 5	Cumulative practice	St 3 Bk 6	Factual fluency

\* These animations are open ended without one correct answer, so we suggest you return to using the Stage 1 'review' animation in the practice section at the end of your session, rather than using these animations.

Week 4				Week 5				Week 6			
Stage 3, Books 7 & 8 (review)				Stage 3, Book 9: Strategy Selection (review)				Stage 4, Book 1: Ten and A Bit (review)			
Review		Teaching and practice		Review		Teaching and practice		Review		Teaching and practice	
St 3 Bk 6	Cumulative practice	St 3 Bk 7	Practice animation	St 3 Bk 2	Factual fluency	Fact set A with strategy prompts		St 3 Bk 9	Fact set A factual fluency	Conceptual subitising with names	
St 3 Bk 6	Cumulative practice	St 3 Bk 7	Factual fluency	St 3 Bk 4	Factual fluency	Fact set B with strategy prompts		St 3 Bk 9	Fact set B factual fluency	Conceptual subitising with numerals	
St 3 Bk 7	Cumulative practice	St 3 Bk 8	Practice animation	St 3 Bk 6	Factual fluency	Fact set C with strategy prompts		St 3 Bk 9	Fact set C factual fluency	Practice animation	
St 3 Bk 7	Cumulative practice	St 3 Bk 8	Factual fluency	St 3 Bk 7	Factual fluency	Fact set D with strategy prompts		St 3 Bk 9	Fact set D factual fluency	Story contexts	
Small group gap teaching and consolidation				Small group gap teaching and consolidation				St 3 Bk 9	Any	Factual fluency	

## Week 7

Stage 3: Gap teaching and consolidation

Stage 4: Gap teaching and consolidation

This week can be used as you wish to secure fluency in number facts within 10 (Stage 3) and for 10 and a bit (Stage 4).

You will have identified children who need targeted support during the preceding weeks. Use the assessment packs for Stages 3 and 4 to identify and teach precise gaps.

The aim by the end of this term is that children are fluent in the facts within 10 (Stage 3 facts) and the Ten and A Bit facts (Stage 4 facts). Children will continue to practise these everyday into Autumn 2 in the 'review' part of the daily number facts session.

Week 1			Week 2			Week 3		
Stage 5, Book 1: Make 10 and Then Addition			Stage 5, Book 1: Make 10 and Then Addition			Stage 5, Book 1: Make 10 and Then Addition		
Review		Teaching and practice	Review		Teaching and practice	Review		Teaching and practice
St 3 Bk 9	Fact set A factual fluency*	<i>Grids build-up</i> Addend of 9 teaching	St 3 Bk 9	Fact set A factual fluency*	Practice on tens frames**	St 3 Bk 9	Fact set A factual fluency*	Factual fluency
St 3 Bk 9	Fact set B factual fluency*	Addend of 9 practice	St 3 Bk 9	Fact set B factual fluency*	Practice on tens frames**	St 3 Bk 9	Fact set B factual fluency*	Factual fluency
St 3 Bk 9	Fact set C factual fluency*	Addend of 8 or 7 teaching	St 3 Bk 9	Fact set C factual fluency*	Practice on tens frames**	St 3 Bk 9	Fact set C factual fluency*	Factual fluency
St 3 Bk 9	Fact set D factual fluency*	Addend of 8 or 7 practice	St 3 Bk 9	Fact set D factual fluency*	Practice on tens frames**	St 3 Bk 9	Fact set D factual fluency*	Make 10 and Then on a Number line
Small group gap teaching and consolidation			Small group gap teaching and consolidation			St 4 Bk 1	Factual fluency	Make 10 and Then on a Number line

Week 4			Week 5			Week 6		
Stage 5, Book 2: Make 10 and Then Subtraction			Stage 5, Book 2: Make 10 and Then Subtraction			Stage 5, Book 2: Make 10 and Then Subtraction		
Review		Teaching and practice	Review		Teaching and practice	Review		Teaching and practice
St 3 Bk 9	Fact set A factual fluency*	<i>Grids build-up</i> Subtracting 9 teaching	St 3 Bk 9	Fact set A factual fluency*	Practice on tens frames**	St 3 Bk 9	Fact set A factual fluency*	Factual fluency
St 3 Bk 9	Fact set B factual fluency*	Subtracting 9 practice	St 3 Bk 9	Fact set B factual fluency*	Practice on tens frames**	St 3 Bk 9	Fact set B factual fluency*	Factual fluency
St 3 Bk 9	Fact set C factual fluency*	Subtracting 8 or 7 teaching	St 3 Bk 9	Fact set C factual fluency*	Practice on tens frames**	St 3 Bk 9	Fact set C factual fluency*	Factual fluency
St 3 Bk 9	Fact set D factual fluency*	Subtracting 8 or 7 practice	St 3 Bk 9	Fact set D factual fluency*	Practice on tens frames**	St 3 Bk 9	Fact set D factual fluency*	Make 10 and Then on a Number line
Small group gap teaching and consolidation			Small group gap teaching and consolidation			St 4 Bk 1	Factual fluency	Make 10 and Then on a Number line

\* If you think your class need more scaffolding, you can use the 'strategy prompt' animations from Stage 3 Book 9 instead of the factual fluency ones.

\*\*Follow the progression guidance sheet (Learning Outcomes 3 and 4), considering whether you want to introduce alternative models.

Week 1			Week 2			Week 3		
Stage 5, Book 3: More Doubles and Near Doubles			Stage 5, Book 3: More Doubles and Near Doubles			Stage 5, Book 3: More Doubles and Near Doubles		
Review		Teaching and practice	Review		Teaching and practice	Review		Teaching and practice
St 3 Bk 9	Fact set A factual fluency	Seeing doubles and halves teaching	St 3 Bk 9	Fact set C factual fluency	Doubles and halves teaching	St 3 Bk 9	Fact set A factual fluency	Hidden doubles teaching
St 3 Bk 9	Fact set B factual fluency	Seeing doubles	St 3 Bk 9	Fact set D factual fluency	Doubles and halves practice	St 3 Bk 9	Fact set B factual fluency	Hidden doubles practice
St 4 Bk 1	Factual fluency	Seeing halves	St 4 Bk 1	Factual fluency	Near doubles practice	St 3 Bk 9	Fact set C factual fluency	Factual fluency
St 5 Bk 1	Practice on tens frames or factual fluency	Doubles and halves fluency	St 5 Bk 2	Practice on tens frames or factual fluency	Factual fluency	St 3 Bk 9	Fact set D factual fluency	Cumulative practice
Small group gap teaching and consolidation			Small group gap teaching and consolidation			Small group gap teaching and consolidation		

Week 4			Week 5			Week 6		
Stage 5, Book 4: Adjusting			Stage 5, Book 4: Adjusting			Stage 5, Book 4 Adjusting		
Review		Teaching and practice	Review		Teaching and practice	Review		Teaching and practice
St 3 Bk 9	Fact set A factual fluency	Adding 9 teaching	St 3 Bk 9	Fact set C factual fluency	Subtracting 9 teaching	St 3 Bk 9	Fact set A factual fluency	Factual fluency
St 3 Bk 9	Fact set B factual fluency	Adding 9 practice	St 3 Bk 9	Fact set D factual fluency	Subtracting 9 practice	St 3 Bk 9	Fact set B factual fluency	Adjusting from bonds to 10
St 4 Bk 1	Factual fluency	Adding 8 teaching	St 4 Bk 1	Factual fluency	Subtracting 8 teaching	St 4 Bk 1	Factual fluency	Cumulative practice
St 5 Bk 3	Cumulative practice	Adding 8 practice	St 5 Bk 3	Cumulative practice	Subtracting 8 practice	St 5 Bk 3	Cumulative practice	Cumulative practice
Small group gap teaching and consolidation			Small group gap teaching and consolidation			Small group gap teaching and consolidation		

Week 1			Week 2			Week 3		
Stage 5, Book 5: Strategy selection			Stage 5, Book 5: Strategy selection			Stage 5, Book 5: Strategy selection		
Review		Teaching and practice	Review		Teaching and practice	Review		Teaching and practice
St 3 Bk 9	Fact set C factual fluency	Strategy reminder Fact set A	St 3 Bk 9	Fact set A factual fluency	Strategy reminder Fact set A	St 3 Bk 9	Fact set C factual fluency	Small group gap teach
St 3 Bk 9	Fact set D factual fluency	Fact set B	St 3 Bk 9	Fact set B factual fluency	Fact set B	St 3 Bk 9	Fact set D factual fluency	Small group gap teach
St 4 Bk 1	Factual fluency	Fact set C	St 4 Bk 1	Factual fluency	Fact set C	St 4 Bk 1	Factual fluency	Small group gap teach
St 5 Bk 3	Cumulative practice	Fact set D	St 5 Bk 3	Cumulative practice	Fact set D	St 5 Bk 3	Cumulative practice	Small group gap teach
Small group gap teaching and consolidation			Small group gap teaching and consolidation			Small group gap teaching and consolidation		

Week 4			Week 5			Week 6		
Stage 6, Book 1: Calculating with multiples of 10			Stage 6, Book 2: Calculating with ones			Stage 6, Book 3: Calculating with tens		
Review		Teaching and practice	Review		Teaching and practice	Review		Teaching and practice
St 5 Bk 7	Factual fluency	Enumerating tens	St 6 Bk 1	Factual fluency	Adding ones	St 6 Bk 1	Factual fluency	Adding tens
St 5 Bk 7	Factual fluency	Adding tens	St 3 Bk 9	Fact Set A factual fluency	Adding ones	St 6 Bk 2	Factual fluency	Adding tens
St 5 Bk 7	Factual fluency	Subtracting tens	St 3 Bk 9	Fact Set B factual fluency	Subtracting ones	St 5 Bk 7	Factual fluency	Subtracting tens
St 5 Bk 7	Factual fluency	Factual fluency	St 3 Bk 9	Fact Set C factual fluency	Subtracting ones	St 5 Bk 7	Factual fluency	Subtracting tens
St 5 Bk 7	Factual fluency	Factual fluency	St 3 Bk 9	Fact Set D factual fluency	Factual fluency	St 5 Bk 7	Factual fluency	Factual fluency



Week 1			Week 2			Weeks 3- 6
Stage 6, Book 3: Make the Next Ten and Then			Stage 6, Book 3: Make the Previous Ten and Then			
Review		Teaching and practice	Review		Teaching and practice	
St 6 Bk 1	Factual fluency	Practice on number lines	St 6 Bk 1	Factual fluency	Practice on number lines	
St 6 Bk 2	Factual fluency	Practice on number lines	St 6 Bk 2	Factual fluency	Practice on number lines	
St 6 Bk 3	Factual fluency	Practice on part part whole models*	St 6 Bk 3	Factual fluency	Practice on part part whole models*	
St 3 Bk 9	Fact Set A factual fluency	Factual fluency	St 6 Bk 4	Factual fluency	Factual fluency	
St 3 Bk 9	Fact Set B factual fluency	Factual fluency	St 5 Bk 7	Factual fluency	Factual fluency	

Teacher decision on use of sessions over period of KS1 SATs

\*Follow the progression guidance sheet, considering how your class respond to the part part whole model as an alternative model