

CURRICULUM

Subject overview

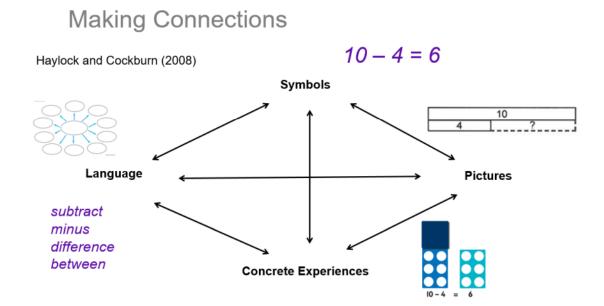
Maths

We are Wise Owl, where Together Everyoue Achieves More



Wise Owl Trust: Planning & Teaching Mathematics

At Seymour Road Academy, the teaching of Mathematics has been developed in order to meet the needs of the pupils. Our aim is for our children to develop Mathematical fluency and a deep understanding of number, providing the children with a secure foundation to build on, rather than a reliance of rote memorisation of rules. Newstead's (1995 & 1998) research found that 'teaching methods that promoted understanding rather than just memorisation and rehearsal of procedures and recipes significantly increases confidence and reduces mathematical anxiety'. A deeper understanding of Mathematical concepts increases a child's confidence when faced with problems that are unfamiliar and in varied contexts. Mastery: Helen Drury, 2018 defines mastery as 'A mathematical concept or skill that has been mastered when, through exploration, clarification, practice and application over time, a person can represent it in multiple ways, has the mathematical language to be able to communicate related ideas, and think mathematically with the concepts so that they can independently apply it to a totally new problem in an unfamiliar situation.'



Deepening understanding: 3 key dimensions;

- Deepening Conceptual Understanding through using and making connections between concepts, and between physical, diagrammatic and symbolic representations.
- Encouraging students to think like mathematicians, through giving them opportunities to seek patterns and rules, and to ask and answer open questions.
- Developing students' communication, through explicitly teaching them to discuss mathematics in grammatically correct full sentences with accurate terminology.

Nursery– 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	Week 13	Week 14	Week 15
Autumn	Geometry: Colours Matching Sorting Patterns							r ement: e of size		T Com	mber and Plac he counting pr pare amounts lore than/fewo	inciple of objects.		Retrieval	Retrieval
Spring		Understar cognise circles, t	teaching numl	.3, 4 & 5 es/rectangles & pers)		Geometry: 2-D Shapes	Geometry: Retrieval Recognise colours. Matching colours	Number and Place Value: Know and understand number 5. Know and recognise a pentagon.	Geometry: Retrieval Know how to sort items by different attributes.	Geometry: Sort items Make and connect AB patterns	Number and place value: Retrieval compare amount of objects 1-5 and begin to recognise when they are equal.	Measure: Retrieval Know how to use the language of size.	Consolidation		
Summer	Shape and Space Retrieval Know the shapes: circle, triangle, square, rectangle and pentagon.	Number and place value: Retrieval Know and understand number 5. Recite numbers past 5.	Measure: Know and order the events of the day.	Measure: Know the vocabulary of length and recognise different lengths.	Number and place value: Retrieval Know and understand number 5. Recite numbers past 5.	Measure: Know heavy and light comparison	Measure: Know how to describe capacity.	Number and place value Retrieval Know and understand number 5. Recite numbers past 5.	Shape and Space: Retrieval Know the shapes: circle, triangle, square, rectangle and pentagon.	Shape and Space: Know how to describe position. Describe a route.	Geometry Know how to make and continue AB patterns. Talk about patterns in the environme nt.	Number and place value Retrieval Know and understand number 5. Recite numbers past 5.	Consolidation		

Reception- 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	Week 13	Week 14	Week 15		
Autumn	Getting to	know you	Match, So Compa			ıt Measure atterns	lt's r 1, 2		Circles &	Triangles		1, 2, 3, 4 ,5		1, 2, 3, 4 ,5		Shapes with 4 sides shapes	Consolidati on
Spring	Alive	e in 5	Mass & Capacity		owing 7, 8	Length, Hei	ght & Time	В	uilding 9 and	10	Explore 3-D Shapes Retrieval		Retrieval				
Summer	To 20 and	d Beyond	How many now?	Com	pulate, pose & mpose	Sharing &	Grouping		Visualise, Build & Map			Retrieval	Retrieval				

Year 1 – 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	Week 13	Week 14	Week 15
Autumn	Number: Number & Place Value (within 10)						Addi	tion & Subtr (within 10)			G	eometry: Sh	ape	Retrieval	Retrieval
Spring	Number: l	Number: Number & Place Value (within 20) Addition & Subtraction (within 20) Number: Place Value (within 50) Measurement: Length and Height						nent: Mass olume	Retrieval						
Summer	Number: N	Jultiplication	& Division	Number:	Fractions	Geometry : Position & Direction		Value in 100)	Measureme	ent: Money	Measuren	nent: Time	Retrieval		

Year 2 – 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	Week 13	Week 14	Week 15
Autumn	Number: Number & Place Value			'alue	Num	nber: Additic	on & Subtrac	tion	Ge	eometry: Sha	pe	Stat	istics	Retrieval	Retrieval
Spring	Meas	Measurement: Money		Number: Multiplication & Division						ent: Length eight		ment: Capaci Temperatur		Retrieval	
Summer	Nur	Number: Fractions Me		Mea	surement: 1	⁻ ime	Geometry & Dire			Addition & action		nber: cation & sion	Retrieval		

Year 3 – 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	Week 13	Week 14	Week 15
Autumn	Number: Number & Place Value Number: Addition & Subtraction						ubtraction		Ge	ometry: Sha	pe	Retrieval	Retrieval	Retrieval	
Spring	Number: N	Number: Multiplication & Division Measurement: Length & Number: Fractions Perimeter				3	Measurer	nent: Mass &	& Capacity	Retrieval					
Summer	Number: Fractions Measurement: Money Measurement: Time Geometry: S			ry: Shape	Stat	istics	Retrieval	Retrieval							

Year 4 – 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	Week 13	Week 14
Autumn	Νι	ımber: Number	· & Place Val	ue	Number: A	Addition and S	ubtraction	Measure: Area	Number: N	Iultiplication (& Division A	Retrieval	Retrieval	Retrieval
Spring	Number: M	Iultiplication &	Division B		Length and neter		Number:	Fractions		Number: Decimals A			Retrieval	
Summer	Number:	Decimals B		rement: oney	Measur	e: Time		eometry: Shap e: Length & Pe	ry: Shape sth & Perimeter Statistics: Interpreting Geometry Position Direction					

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	Week 13	Week 14	Week 15
Autumn	Number: Number & Place Value		Number: Addition and Subtraction		Number: Multiplication & Division A				Number: F	ractions A		Measure : Time	Retri	eval	
Spring	Numbe	Number: Multiplication & Numl		Number: Fractions B		Number: Decimals and Percentages		Measure: and <i>i</i>		Stati	istics	Measure : Time			
Summer	Ge	Geometry: Shape Geometry: Position & Direction			Nun	nber: Decim	als	Number: Negative Numbers Numbers Units			Measure: Volume	Retrieval			

Year 6 – 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	Week 13	Week 14
Number: Number & Number: Addition & Subtraction, Multiplication & Division Place Value Statistics					Number:	Fractions	Number: I	Fractions B	Measure: Convertin g Units	Retr	ieval		
Number: I Propo		Number:	Algebra	Number:	Decimals	Fractio	Geometry: Area, Perimeter and Volume Time				Statistics	Retrieval	
Ge	eometry: Sha	pe	Geometry : Position & Direction	Retrieval			Consolidation & Transition Projects						