

# Alderwood Primary School

## Literacy and Mathematics Curriculum Overview 2015-2016

FS1	<b>Literacy</b>	<p>Provide opportunities for children to: All subject areas Listens to others one to one or in small groups. Listens to stories with increasing attention and recall. Joins in with repeated refrains and anticipates key events and phrases in rhymes and stories. Follow directions Begin to use more complex sentences to link thoughts and retell a simple past event in correct order Use talk to connect ideas, explain what is happening and anticipate what might happen next, recall and relive past experiences. Questions why things happen and gives explanations. Ask e.g. <i>who, what, when, how.</i></p>		
	<b>Mathematics</b>	<p>Provide opportunities for children to: Use some number names and number language. Use some number names accurately in play. Recite numbers in order to 10. Count objects 1:1 Combine two groups and find the total Represent numbers using fingers, marks on paper or pictures. Sometimes matches numeral and quantity correctly. Shows curiosity about numbers by offering comments or asking questions. Compare two groups of objects, saying when they have the same number. Show an interest in number problems and numerals in the environment. Show an interest in shape and space by playing with shapes or making arrangements with objects. Be aware of and show an interest in shape by sustained construction activity or by talking about shapes or arrangements. Use positional language. Talk about the shapes of everyday objects, e.g. 'round' and 'tall'.</p>		
FS2	<b>Literacy</b>	<p>Class discussion skills Opportunities to discuss themselves/families/past events Projecting the voice Collaborative communication Think, Pair, Share Asking questions – how, why? Past tense Describing events using past tense accurately Language of position Following/giving instructions Questioning Asking/responding to how/why questions</p>		
	<b>Mathematics</b>	<p>Numbers to 10 Shapes in the environment Comparing numbers and objects Calculating and recording through pictures Numbers to 15 Presenting data Ordinal numbers Measuring in non-standard units Time Numbers to 20 and recording numbers to 20 Doubling and halving Days of the week Position Number bonds Counting on, on a number line Measuring –capacity</p>		
<b>Year 1</b>	<b>Literacy</b>	<b>Reading</b> Match graphemes for all phonemes	<b>Writing</b> Name letters of the alphabet	<b>Grammar</b> Leave spaces between words

		<p>Read accurately by blending sounds Read words with very common suffixes Read contractions and understand purpose Read phonics books aloud Link reading to own experiences Join in with predictable phrases Discuss significance of title and events Make simple predictions</p>	<p>Spell very common 'exception' words Spell days of the week Use very common prefixes and suffixes Form lower case letters correctly Form capital letters and digits Compose sentences orally before writing Read own writing to peers or teachers</p>	<p>Begin to use basic punctuation: . ? ! Use capital letters for proper nouns Use common plural and verb suffixes</p> <p><b>Speaking &amp; Listening</b> Listen and respond appropriately Ask relevant questions Maintain attention and participate</p>
	<b>Mathematics</b>	<p><b>Number/ Calculation</b> Count to/ across 100 Count in 1s, 2s, 5s and 10s Identify 'one more' and 'one less' Read and write numbers to 20 Use language e.g. 'more than', 'most' Use +, - and = symbols Know number bonds to 20 Add and subtract one-digit and two-digit numbers to 20, including zero Solve one-step problems, including simple arrays</p>	<p><b>Geometry and Measures</b> Use common vocabulary for comparison, e.g. heavier, taller, full, longest, quickest Begin to measure length, capacity, weight Recognise coins and notes Use time and ordering vocabulary Tell the time to hour/ half-hour Use language of days, weeks, months and years Recognise and name common 2-d and 3-d shapes Order and arrange objects Describe position and movement, including half and quarter turns</p>	<p><b>Fractions</b> Recognise and use <math>\frac{1}{2}</math> and <math>\frac{1}{4}</math></p>
<b>Year 2</b>	<b>Literacy</b>	<p><b>Reading</b> Develop phonics until decoding secure Read common suffixes Read and re-read phonic-appropriate books Read common 'exception' words Discuss and express views about fiction, non-fiction and poetry Become familiar with and retell stories Ask and answer questions; make predictions Begin to make inferences</p>	<p><b>Writing</b> Spell by segmenting into phonemes Learn to spell common 'exception' words Spell using common suffixes, etc. Use appropriate size letters and spaces Develop positive attitude and stamina for writing Begin to plan ideas for writing Record ideas sentence-by-sentence Make simple additions and changes after proof-reading</p>	<p><b>Grammar</b> Use .! ? and ' Use simple conjunctions Begin to expand noun phrases Use some features of standard</p> <p><b>Speaking and Listening</b> Articulate and justify answers Initiate and respond to comments Use spoken language to develop understanding</p>
	<b>Mathematics</b>	<b>Number/ Calculation</b>	<b>Geometry and Measure</b>	<b>Fractions</b>

		<p>Know 2, 5, 10 x tables          Begin to use place value (T/U)          Count in 2s, 3s, 5s and 10s          Identify, represent and estimate numbers          Compare/ order numbers incl. <math>&lt;=&gt;</math>          Write numbers to 100          Know numbers to 100          Know number facts to 20 (+related to 100)          Use x and <math>\div</math> symbols          Recognise commutative property of multiplication</p>	<p>Know and use standard measure          Read scales to nearest whole unit          Use symbols for £ and p and add/ subtract simple sums of less than £1 or in pounds          Tell time to the nearest 5 minutes          Identify and sort 2-d and 3-d shapes          Identify 2-d shapes on 3-d surfaces          Order and arrange mathematical objects          Use terminology of position and movement</p>	<p>Find and write simple fractions          Understand equivalence e.g. <math>2/4=1/2</math></p> <p><b>Data</b>          Interpret simple tables and pictograms          Ask and answer comparison questions          Ask and answer questions about totalling</p>
Year 3	Literacy	<p><b>Reading</b>          Use knowledge to read 'exception' words          Read range of fiction and non-fiction          Use dictionaries to check meaning          Prepare poems and plays to perform          Check own understanding of reading          Draw inferences and make predictions          Retrieve and record information from non-fiction books          Discuss reading with others</p>	<p><b>Writing</b>          Use prefixes and suffixes in spelling          Write simple dictated sentences          Use handwriting joins appropriately          Plan to write based on familiar formats          Rehearse sentences orally for writing          Use varied rich vocabulary          Create simple settings and plot          Assess effectiveness of own and others writing</p>	<p><b>Grammar</b>          Use range of conjunctions          Use perfect tense          Use range of nouns and pronouns          Use time connectives          Introduce speech punctuation          Know language of clauses</p>
	Mathematics	<p><b>Number/ Calculation</b>          Learn 3,4 and 8x table          Mentally add and subtract units, tens or hundreds to numbers of up to 3 digits          Written column addition and subtraction          Solve number problems, including multiplication and simple division and missing number problems          Use commutativity to help calculations</p>	<p><b>Geometry and Measures</b>          Measure and calculate with metric measures          Measure simple perimeter          Add/subtract money in context          Use Roman numerals up to XII; tell time          Calculate using simple time problems          Draw 2D/ make 3D shapes          Identify and use right angles          Identify horizontal, vertical, parallel and perpendicular lines</p>	<p><b>Fractions and Decimals</b>          Use and count in tenths          Recognise, find and write fractions          Recognise some equivalent fractions          Add/ subtract fractions          Order fractions with common denominators</p>
Year 4	Literacy	<p><b>Reading</b>          Secure decoding of unfamiliar words          Read for a range of purposes          Retell some stories orally          Discuss words and phrases that capture the imagination          Identify themes and conventions          Retrieve and record information          Make inferences and justify predictions          Recognise a variety of forms of poetry          Identify and summarise ideas</p>	<p><b>Writing</b>          Correctly spell common homophones          Increase regularity of handwriting          Plan writing based on familiar forms          Organise writing into paragraphs          Use simple organisational devices          Proof-read for spelling and punctuation errors          Evaluate own and others' writing          Read own writing aloud</p>	<p><b>Grammar</b>          Use wider range of conjunctions          Use perfect tense appropriately          Select pronouns and nouns for clarity          Use and punctuate direct speech          Use commas after front adverbials</p>
				<p>Speaking and Listening          Articulate and justify opinions          Speak audibly in Standard English          Gain, maintain and monitor interest of listeners</p>

	<b>Mathematics</b>	<p><b>Number/Calculation</b>            Know all tables to 12x12            Secure place value to 1000            Use negative whole numbers            Round numbers to nearest 10,100 or 1000            Use Roman numerals to 100(C)            Column addition and subtraction up to 4 digits            Multiply and divide mentally            Use standard short multiplication</p>	<p><b>Geometry and Measures</b>            Compare 2-d shapes, including quadrilaterals and triangles            Find area by counting squares            Calculate rectangle perimeters            Estimate and calculate measures            Identify acute, obtuse and right angles            Identify symmetry            Use first quadrant coordinates            Introduce simple translations</p>	<p><b>Fractions and decimals</b>            Recognise tenths and hundredths            Identify equivalent fractions            Add and subtract fraction with common denominators            Recognise common equivalents            Round decimals to whole numbers            Solve money problems</p> <p><b>Data</b>            Use bar charts, pictograms and line graphs</p>
<b>Year 5</b>	<b>Literacy</b>	<p><b>Reading</b>            Apply knowledge of morphology and etymology when reading new words            Read and discuss a broad range of genres and texts            Identify and discuss themes            Make recommendations to others            Learn poetry by heart            Draw on inferences and make predictions            Discuss author's use of language            Retrieve and present information from non-fiction texts            Formal presentations and debates</p>	<p><b>Writing</b>            Secure spelling, including homophones, prefixes, silent lets, etc.            Use a thesaurus            Develop legible, fluent handwriting            Plan writing to suit audience and purpose            Develop character, setting and atmosphere in narrative            Use organisational and presentational features            Use consistent appropriate tense            Proof reading            Perform own compositions</p>	<p><b>Grammar</b>            Use expanded noun phrases            Use modal and passive verbs            Use relative clauses            Use commas for clauses            Use brackets, dashes and commas for parenthesis</p> <p><b>Speaking and Listening</b>            Give well-structured explanations            Command of Standard English            Consider and evaluate different viewpoints            Use appropriate register</p>
	<b>Mathematics</b>	<p><b>Number/ Calculation</b>            Secure place value to 1,000,000            Use negative whole numbers in context            Use Roman numerals to 1000 (M)            Use standard written methods for all four operations            Confidently add and subtract mentally            Use vocabulary of prime, factor and multiple            Multiply and divide by powers of 10            Use square and cube numbers</p>	<p><b>Geometry and Measures</b>            Convert between different units            Calculate perimeter of composite shapes and area of rectangle            Estimate volume and capacity            Identify 3-D shapes            Measure and identify angles            Understand regular polygons            Reflect and translate shapes</p>	<p><b>Fractions</b>            Compare and order fractions            Add and subtract fractions with common denominators            Multiply fractions by units            Write decimals as fractions            Order and round decimal numbers            Link percentages to fractions</p> <p><b>Data</b>            Interpret tables and line graphs            Solve questions about line graphs</p>
<b>Year 6</b>	<b>Literacy</b>	<p><b>Reading</b>            Read a broad range of genres            Recommend books to others            Make comparisons within/across books            Support inferences with evidence            Summarise key points from texts            Identify how language, structure, etc. contribute to meaning            Discuss use of language, inc. figurative</p>	<p><b>Writing</b>            Use knowledge of morphology and etymology in spelling            Develop legible personal handwriting style            Plan writing to suit audience and purpose; use models of writing            Develop character and setting in narrative            Select grammar and vocabulary for effect</p>	<p><b>Grammar</b>            Use appropriate register/ style            Use the passive voice for purpose            Use feature to convey and clarify meaning            Use full punctuation            Use language of subject/ object</p> <p><b>Speaking and Listening</b>            Use questions to build knowledge            Articulate arguments and opinions            Use spoken language to speculate, hypothesise and explore            Use appropriate register and language</p>

		Discuss and explain reading, providing reasoned justifications for views	Use a wide range of cohesive devices Ensure grammatical consistency	
<b>Mathematics</b>	<b>Number/ Calculation</b> Secure place value and rounding to 10,000,000 including negatives All written methods, including long division Use order of operations (not indices) Identify factors, multiples and primes Solve multi-step number problems	<b>Geometry and Measures</b> Confidently use a range of measures and conversions Calculate area of triangles/ parallelograms Use area and volume formulas Classify shapes by properties Know and use angle rules Translate and reflect shapes, using all four quadrants	<b>Fractions, decimals and percentages</b> Compare and simplify fractions Use equivalents to add fractions Multiply some fractions Divide fractions by whole numbers Solve problems involving decimals and percentages Use written division up to 2dp Introduce ratio and proportion	
	<b>Algebra</b> Introduce simple use of unknowns	<b>Data</b> Use pie charts Calculate mean averages		