Subject: Maths

<b>Strive</b> Enthusiasm, perseverance and resilience		<b>Harmony</b> Empathy, understanding and tolerance	<b>Inspire</b> Responsibility, right and wrong, respect	<b>Nurture</b> Health bodies, minds and relationships	<b>Excel</b> Ambition
		Autumn	Spring		Summer
Reception	<ul> <li>Getting to know you</li> <li>Just like me!</li> <li>It's me 1, 2, 3!</li> <li>Light and dark</li> </ul>		<ul> <li>Alive in 5</li> <li>Growing 6, 7</li> <li>Building 9 an</li> </ul>	! 7, 8 d 10	<ul> <li>To 20 and beyond</li> <li>First, then, now</li> <li>Find my pattern</li> <li>On the move</li> </ul>
Year 1	• Ac	<ul> <li>Place Value (within 10)</li> <li>Idition and subtraction (within 10)</li> <li>Shape</li> <li>Place Value (within 20)</li> </ul>	<ul> <li>Consolidati</li> <li>Addition and subtracti</li> <li>Place Value (with</li> <li>Length and h</li> <li>Weight and void</li> <li>Consolidati</li> </ul>	<ul> <li>Consolidation</li> <li>Addition and subtraction (within 20)</li> <li>Place Value (within 50)</li> <li>Length and height</li> <li>Weight and volume</li> <li>Consolidation</li> </ul>	
Year 2	<ul> <li>Place Value</li> <li>Addition and subtraction</li> <li>Money</li> <li>Multiplication and division</li> </ul>		<ul> <li>Multiplication and</li> <li>Statistics</li> <li>Properties of s</li> <li>Fractions</li> </ul>	division Shape	<ul> <li>Length and Height</li> <li>Position and direction</li> <li>Consolidation and problem solving         <ul> <li>Time</li> <li>Mass, capacity and temperature</li> </ul> </li> </ul>
Year 3	•	• Place Value Addition and subtraction Multiplication and division A	<ul> <li>Multiplication and</li> <li>Length and per</li> <li>Fractions a</li> <li>Mass and cap</li> </ul>	division B imeter A Pacity	<ul> <li>Fractions B</li> <li>Time</li> <li>Shape</li> <li>Statistics</li> <li>Consolidation</li> </ul>

Year 4	<ul> <li>Place Value</li> <li>Addition and subtraction</li> <li>Length and perimeter</li> <li>Multiplication and division</li> </ul>	<ul> <li>Multiplication and division</li> <li>Area</li> <li>Fractions</li> <li>Decimals</li> </ul>	<ul> <li>Decimals</li> <li>Money</li> <li>Time</li> <li>Statistics</li> <li>Properties of shape</li> <li>Position and direction</li> <li>Consolidation</li> </ul>
Year 5	<ul> <li>Place Value</li> <li>Addition and subtraction <ul> <li>Statistics</li> </ul> </li> <li>Multiplication and division <ul> <li>Perimeter and area</li> </ul> </li> </ul>	<ul> <li>Multiplication and division</li> <li>Fractions</li> <li>Decimals and percentages</li> <li>Consolidation</li> </ul>	<ul> <li>Consolidation</li> <li>Decimals</li> <li>Properties of shape</li> <li>Position and direction</li> <li>Converting units</li> <li>Volume</li> </ul>
Year 6	<ul> <li>Place Value</li> <li>Addition, subtraction, multiplication, division</li> <li>Fractions A</li> <li>Fractions B</li> <li>Converting Measure</li> </ul>	<ul> <li>Ratio</li> <li>Algebra</li> <li>Decimals</li> <li>Fractions, decimals and percentages</li> <li>Area, perimeter and volume</li> <li>Statistics</li> </ul>	<ul> <li>Shape</li> <li>Position and direction</li> <li>Themed projects, consolidation and problem solving</li> </ul>

<u>Moral</u> - Ability to recognise integrity (the difference between right and wrong) and to readily apply this understanding in their own lives, recognise legal boundaries and, in so doing, respect the civil and criminal law of England.

Spiritual Development - Ability to be reflective about their own beliefs (religious or otherwise) and perspective on life. Knowledge of, and respect for, different people's faiths, feelings and values.

<u>Cultural</u> – The essential knowledge pupils need to be educated citizens, introducing them to the best that has been thought and said and helping to engender an appreciation of human creativity and achievement (music, art, poetry etc.).

<u>Social</u> – Ability to use of a range of social skills in different contexts, for example working and socialising with other pupils, including those from different religious, ethnic and socio-economic backgrounds. Demonstrate a willingness to participate in a variety of communities and social settings, including by volunteering, cooperating well with others and being able to resolve conflicts effectively.

<u>Character</u> – a set of positive personal traits, dispositions and virtues that informs their motivation and guides their conduct so that they reflect wisely, learn eagerly, behave with integrity and cooperate consistently well with others.

Value	KS1	KS2
Strive	At Northwood Park, we focus on developing deep	Daily problem-solving activities have multiple approaches
Enthusiasm, perseverance and	understanding rather than memorisation, helping children	towards their solution to enable our learners to build both
resilience	to develop self-belief, persistence and resilience through	their resilience and perseverance. We encourage pupils to
	'small steps' progression. This allows children to learn at	discuss their math; by sharing and discussing alternative
	their own pace while still achieving high standards.	approaches, learners will begin to develop a 'toolkit' of
	Children feel safe to make mistakes, with 'Marvellous	methods so they can make more informed decisions about
	Misconceptions' shared. Pupils are encouraged to be	which approach to take on future occasions.
	creative and conjure a sense of exploration and	
	curiosity and discuss their mistakes, thus reducing	
	anxiety around the subject.	
Harmony	Every lesson utilises an 'I Do, We Do, You Do' approach	Children regula <mark>rl</mark> y work in groups to explore concepts and
Empathy, understanding and	which encourages pupils to work together to learn new	challenges, deve <mark>lo</mark> ping teamwork, understanding and
tolerance	skills and knowledge. Throughout the lesson,	tolerance of othe <mark>r's</mark> ideas. This teamwork supports
	mathematical talk is encouraged and pupil work, both in	creative thinking a <mark>n</mark> d engagement with the subject as it
	pairs and in larger table groups, to discuss, unpick and	promotes collabora <mark>tiv</mark> e problem solving and mathematical
	share their creative solutions to problems. During this	discu <mark>ssion</mark> . During ' <mark>sta</mark> tistics' topics, pupils will vote when
	discussion, pupils develop tolerance of other's ideas.	collecting data. Pupils are encouraged to use their
	Children also use maths to learn about different faiths	imagination and creat <mark>ivi</mark> ty to explore ideas while learning
	and cultures around the world. E.g., looking at	mathematics by id <mark>entifyin</mark> g and applying patterns and
	patterns/shapes within Islam/ Hindu religions. Pupils	rules to everyday pr <mark>oblem-</mark> solving; writing own problems
	participate, co-operate and resolve conflicts posed in daily	and challenges that use <mark>tho</mark> se patterns or rules. As in KS1,
	reasoning and problem-solving task which involve 'but	pupils participate, co-operate and resolve conflicts posed
	also 'X thinks, Y thinks, who is right?" type	in daily reasoning and problem-solving task which involve
	questions. We help to demonstrate democracy in action,	'but also 'X thinks, Y thinks, who is right?" type

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	for example, by letting all students share views on what is	questions. We help to demonstrate democracy in action,
	being learnt, which is furthered through the use of pupil	for example, by letting all students share views on what is
	voice to reflect upon practice and identify ways in which	being learnt. This is furthered through the use of pupil
	to improve.	voice to reflect upon practice and identify ways in which
		t <mark>o</mark> improve.
Inspire	Children learn to follow both class rules during tasks and	P <mark>u</mark> pils' experiment applying rules in calculations during
Responsibility, right and wrong,	activities for the benefit of all children, taking turns and	al <mark>ge</mark> bra and geometry lessons and develop an
respect	not speaking over others, as well adhere to the rules of	understanding of the consequences of actions: E.g. If you
	math games. Children work within boundaries to make	perf <mark>or</mark> m a particular action to one number, will the same
	safe choices during practical activities and learn to share	outcome apply to other numbers? Is it always the case?
	concrete resources such as scales, weights, shapes etc.	'Som <mark>etim</mark> es, always, never' statements.
	Pupils are able to make their own choices within data	Group work allows pupils to learn mutual respect and to
	handling activities, and through this learn to respect other	behave appropriately, allowing all peers the opportunity
	choices. Daily reasoning tasks help pupils develop an	to work effectively. Pupils learn how to: take turns and
	understanding of the consequences of actions: E.g. If you	share equipment: review each other's ideas and work
	perform a particular action to one number, will the same	respectfully: work collaboratively on projects and
	outcome apply to other numbers? Is it always the case?	problems beloing and advising others
	Sometimes always never's statements	prostents, helping and davising others.
Nurture	Children are encouraged not to be afraid to make	Pupils learn to understand and appreciate personal
Health hodies minds and	mistakes and learn from them 'Marvellous	influences: taking into account other neonle's views and
relationships	Misconceptions' are shared and discussed as part of	understanding how to express their own views E.a. How
retationships	learning in order to help develop a growth mindset. In	to explain to someone where they may have some wrong
	nearling in order to help develop a growth himdeset. In	in a question when working as part of a team. Moreover
	problem solving, children are encouraged to take risks.	in a question when working as part of a team. Moreover,
		ideas and solutions with (Maryellous Missonsentions)
		discussed enable and in a positive manner as to build a
		assuth mindest
Encol	Economia in airea tha annoutronity to avail in Math. Tha	As in KS1, success the second to a (Ladden Tash) a
Excel	Every pupil is given the opportunity to excel in Math. The	As in KST, every pupil has access to a 'Ladaer Task': a
ambition	use of small steps progression allows children to learn at	nigh-ceiling, low threshold task designed to challenge all
	their own pace while still achieving high standards. The	pupils, no matter their ability. Furthermore, topics are
	scheme of learning is designed to support the	introduced to children in a logical order and revisited
	development of reasoning and problem solving alongside	throughout the year to encourage deep learning and
	fluency to ensure challenge and ambition for all pupils.	ensure children have the foundational knowledge they

Furthermore, every pupil has access to a 'Ladder Task': a high-ceiling, low threshold task designed to challenge all pupils, no matter their ability.	need, before moving on to more advanced maths concepts and tackling more challenging number problems.	
ADEMIES		