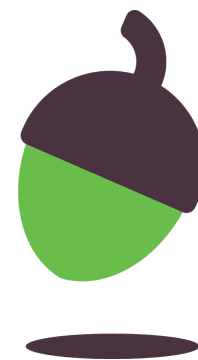


Numeracy

Specialist

Curriculum plan 2020-21



OAK
NATIONAL
ACADEMY

1. Curriculum Principles

The numeracy curriculum consists of subject content from three areas of the National Curriculum; Number, Measurement and Geometry. These have been further broken down into six areas delivered over the course of six half terms. The numeracy curriculum has been designed to encourage pupils to experience functional numeracy in the world around them. Core number knowledge is built on term-by-term in order to secure pre-existing skills and acquire new ones. This will allow pupils to encounter real-life problems and prepare for adulthood. The curriculum is inclusive in all of its concepts - it is divided into two stages of development; Building Understanding and Applying Learning. This ensures that there is a clear progression throughout the curriculum.



2. Subject structure overview

Two stages of development are planned for delivery for Numeracy; Building Understanding (BU) and Applying Learning (AL). These are planned in an age neutral manner in order to be inclusive of pupils of similar cognitive abilities but different ages.

Each of the six units has four lessons planned, these vary with a minimum of 2 video lessons per unit and four accompanying resource packs for each unit.

Unit Number	Unit title	Length of unit	Stages covered
1	Number	4 lessons	BU / AL
2	Shape & Sorting	4 lessons	BU / AL
3	Measurement	4 lessons	BU / AL
4	Time	4 lessons	BU / AL
5	Position & Direction	4 lessons	BU / AL
6	Money	4 lessons	BU / AL



3. Suggested sequence

The units can be used in any sequence to match with themes relating to schools' own topic cycles. Some videos are cross referenced within each unit to support consolidation and generalisation of skills.

We suggest that parents and schools work together to identify which aspects are most relevant to meet the individual needs.

Unit Title	Building Understanding	Applying Learning
Number	<ul style="list-style-type: none">• Develop an understanding of one-to-one correspondence,• Develop a knowledge the number names and numerals up to 5,• Develop an understanding of more and less when comparing groups of objects.	<ul style="list-style-type: none">• Develop an awareness and work towards rote counting to 12,• Develop cardinality up to 9.• Develop an understanding of 'one more/less'
Shape & Sorting	<ul style="list-style-type: none">• Repeat physical sequences with their bodies.• Repeat patterns using colours or objects from the home.• Match shapes to a template and find items in the household with similar properties.• Explore 3-D items around the house.	<ul style="list-style-type: none">• Identify simple 2-D shapes from a repeated pattern.• Create their own patterns and begin to describe them.• Compare items by given criterion.• Sort objects by given criterion.



Measurement	<ul style="list-style-type: none"> ● Compare and match items based on their size; ● Identify and compare big and small items from a selection of two. 	<ul style="list-style-type: none"> ● Compare differences in size of an object to that of another where there is not too significant a difference. ● Begin to use some familiar words to compare size and quantities e.g. heavy, light, more, less, enough and not enough. ● Compare objects on one dimension e.g. length, height, thickness etc. ● Use language such as 'the short one' 'the thin one'
Time	<ul style="list-style-type: none"> ● Sort key events in their day to "day time" and "night time" events. ● Sequence key meals in their day. 	<ul style="list-style-type: none"> ● Demonstrate an awareness of time such as being familiar with names of the days of the week or times of the day (lunch time, bed time etc.) ● Recognize familiar facts of time e.g. I go swimming on Tuesday. Thursday is Nanny's visit day.
Position & Direction	<ul style="list-style-type: none"> ● Begin exploring position and the relationship between items such as stacking bricks. ● Explore the position and direction of objects, e.g. posting items, placing items into containers, filling spaces with a variety of items. 	<ul style="list-style-type: none"> ● Understand words, signs and symbols linked to position and direction e.g. placing an item in, on or under an object. ● Begin to respond to 'forwards' and 'backwards' (this is normally linked to an adult directing them or playing with toys such as pull along cars).
Money	Demonstrate an understanding of the concept of transaction (e.g. by exchanging a coin for an item, or one item for another, during a role-play activity).	<ul style="list-style-type: none"> ● Begin to use some familiar words to compare size and quantities, e.g. heavy, light, more, less, enough and not enough.



4. Unit specifics

1. Number, Building Understanding

Lesson number	Core content	Video lesson
1	To count individual objects (one-to-one correspondence)	Yes
2	To count to 5	No
3	To compare groups of items	Yes
4	Counting and comparing groups	No
Vocabulary		
Number, Count, One, Two, Three, Four, Five, How many/much?, More/less, Most/Least		
Preparation for Adulthood (PfA)		
Employment/HE & Independent Living: Recognising numbers. Independent Living: Setting the table		



2. Shape & Sorting, Building Understanding

Lesson number	Core content	Video lesson
1	Recognising and matching 2-D shapes to a template.	Yes
2	Making a model with 3-D shapes	No
3	Repeating a pattern	Yes
4	Repeating a sequence	No
Vocabulary		
Shape, circle, rectangle, triangle, pattern, sequence, 2-D, 3-D, repeat		
Preparation for Adulthood (PfA)		
Community participation: Beginnings of turn taking in discussion. Good Health: Physical therapies: Link to fine motor skills		



3. Measurement, Building Understanding

Lesson number	Core content	Video lesson
1	Comparing big and small items from a selection of two	Yes
2	Understanding bigger and smaller with actions	No
3	Comparing and matching items based on their size	Yes
4	Comparing and matching items based on the size and properties	No
Vocabulary		
Big(ger/gest)/Small(er/est), tall(er/est)/short(er/est), compare		
Preparation for Adulthood (PfA)		
Independent Living & Community Participation: Recycling Good Health: Sensory circuit		



4. Time, Building Understanding

Lesson number	Core content	Video lesson
1	Understanding day and night through a sensory story	Yes
2	Identifying events from day time and night time	No
3	Linking meals to times of the day	Yes
4	Sequencing meals throughout the day	No
Vocabulary		
Day, Night, Time, morning, afternoon, evening, breakfast, lunch, tea/dinner, supper		
Preparation for Adulthood (PfA)		
Independent Living & Good Health: Choosing healthy meals, appropriate meal times		



5. Position & Direction, Building Understanding

Lesson number	Core content	Video lesson
1	Exploring position	Yes
2	Exploring position	No
3	Exploring position and direction of different objects	Yes
4	Exploring position and direction of different objects	No
Vocabulary		
On, in, next to, under		
Preparation for Adulthood (PfA)		
Employment Independent living: tidying away appropriately		



6. Money, Building Understanding

Lesson number	Core content	Video lesson
1	Matching coins to templates	Yes
2	Exchanging a coin for an item	No
3	Exchanging coins for an item	Yes
4	Exchanging items in a shop	No
Vocabulary		
Money, pence, p, buy, coin		
Preparation for Adulthood (PfA)		
Employment & Independent Living: Handling money Community Participation: Exchanging items for money		



1. Number, Applying Learning

Lesson number	Core content	Video lesson
1	Counting objects to 9	Yes
2	To count to 12	No
3	To understand one more / one less up to 9	Yes
4	Counting and comparing groups	No
Vocabulary		
Number, Count, One, Two, Three, Four, Five, Six, Seven, Eight, Nine, Ten, Eleven, Twelve, How many/much?, More/less, Most/Least		
Preparation for Adulthood (PfA)		
Employment/HE & Independent Living: Recognising numbers Independent Living: Setting the table		



2. Shape & Sorting, Applying Learning

Lesson number	Core content	Video lesson
1	Comparing items based on their shape and size	Yes
2	Sorting items base on their shape and size	Yes
3	Identifying simple 2-D shapes from a pattern	Yes
4	Creating patterns using simple shapes	No
Vocabulary		
Pattern, shape, big, small, large, circle, square, triangle		
Preparation for Adulthood (PfA)		
Community Participation: Understanding of conversation/turn taking		



3. Measurement, Applying Learning

Lesson number	Core content	Video lesson
1	Comparing and ordering similarly sized items by height	Yes
2	Comparing items based on their size	No
3	To compare items using mathematical vocabulary	Yes
4	Measuring liquids and lifting items to compare weight	No
Vocabulary		
Heavy, Light, Weight, Big(ger/gest)/Small(er/est), Thick(er/est)/Thin(ner/nest), size, Height, Length, Full, Empty, More/Less		
Preparation for Adulthood (PfA)		
Independent Living: making drinks, putting shopping away Good Health: Nature Walk		



4. Time, Applying Learning

Lesson number	Core content	Video lesson
1	Learning the names of the days of the week	Yes
2	Sequencing days of the week	No
3	Knowing what happens on different days	Yes
4	Creating a visual timetable / diary	No
Vocabulary		
Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, Sunday, week, day.		
Preparation for Adulthood (PfA)		
Employment, Independent Living, Community Participation: Understanding which days we work on. Understanding times of the day for activities.		



5. Position & Direction, Applying Learning

Lesson number	Core content	Video lesson
1	Following instructions for prepositional language (in, on and under)	Yes
2	Following instructions for prepositional language (in, on and under)	No
3	Responding to 'forwards' and 'backwards'	Yes
4	Following directional instructions	No
Vocabulary		
On, in, next to, under		
Preparation for Adulthood (PfA)		
Community Participation & Independent living: Navigating a map		



6. Money, Applying Learning

Lesson number	Core content	Video lesson
1	Identifying more and less with coins.	Yes
2	Exchanging appropriate quantities for an item.	No
3	Identifying enough and not enough	Yes
4	Exchanging coins in a real life setting.	No
Vocabulary		
Coin, p, pence, more, less, enough, not enough, most, least		
Preparation for Adulthood (PfA)		
Employment, Independent Living & Community Participation: Interacting and handling money		

