Numeracy

Number and place value

Read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit Count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000

Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers through zero

Round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000

Solve number problems and practical problems that involve all of the above

Read Roman numerals to 1000 (M) and recognise years written in Roman numerals.

Read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit

Addition and subtraction Add and subtract whole numbers with more than 4 digits, including using efficient written methods (columnar addition and subtraction)

Add and subtract numbers mentally with increasingly large numbers

Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy

Multiplication and division

Identify multiples and factors, including finding all factor pairs

Solve problems involving multiplication and division including using their knowledge of factors, multiples, squares and cubes

Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers

Establish whether a number up to 100 is prime and recall prime numbers up to 19

Multiply numbers up to 4 digits by a one- or two-digit number using an efficient written method, including long multiplication for two-digit numbers

Multiply and divide numbers mentally drawing upon known facts

Divide numbers up to 4 digits by a one digit number using the efficient written method of short division and interpret

remainders appropriately for the context

Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000

Recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3)

Solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign <u>Area and</u>

Statistics

Solve comparison, sum and difference problems using information presented in line graphs

Complete, read and interpret information in tables, including timetables <u>Fractions and decimals</u> Compare and order fractions whose denominators are all multiples of the same number

Recognise mixed numbers and improper fractions and convert from one form to the other

Add and subtract fractions with the same denominator and related fractions; write mathematical statements >1 as a mixed number (e.g. 2/5 + 4/5 = 6/5 = 11/5)

Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams.

Read and write decimal numbers as fractions (e.g. 0.71 = 71/100)

Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents

Round decimals with two decimal places to the nearest whole number and to one decimal place

Read, write, order and compare numbers with up to three decimal places

Solve problems involving number up to three decimal places

Recognise the per cent symbol (%) and understand that per cent relates to "number of parts per hundred", and write percentages as a fraction with denominator hundred, and as a decimal

Fractions and decimals

Compare and order fractions whose denominators are all multiples of the same number Recognise mixed numbers and improper fractions and convert from one form to the other

Add and subtract fractions with the same denominator and related fractions; write

mathematical statements >1 as a mixed number (e.g. 2/5 + 4/5 = 6/5 = 11/5)

Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams.

Read and write decimal numbers as fractions (e.g. 0.71 = 71/100) Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents

Round decimals with two decimal places to the nearest whole number and to one decimal place

Read, write, order and compare numbers with up to three decimal places

Solve problems involving number up to three decimal places Recognise the per cent symbol (%) and understand that per cent relates to "number of parts per

Decimals and percenta

Decimals up to 2 d.p. Decimals as fractions (1 Decimals as fractions (2 Understand thousandth Thousandths as decimal Rounding decimals Order and compare dec Understand percentage Percentages as fraction decimals Equivalent F.D

Adding decimals within Subtracting decimals w Complements to 1 Adding decimals - cross Adding decimals with t number of decimal pla Subtracting decimals w same number of decin Adding decimals with a different number of de places Subtracting decimals w different number of de places Adding and subtracting and decimals **Decimal sequences** Multiplying decimals by and 1,000 Dividing decimals by 10

ges.	<u>Geometry</u>
	Identify 3-D shapes, including cubes
)	and cuboids, from 2-D
)	representations
IS	
ls	Know angles are measured in
	degrees: estimate and measure them
imals	and draw a given angle writing its
s	and unaw a given angle, writing its
and	size in degrees (o)
.P.	Identify: multiples of 900, angles at a
1	point on a straight line and 1/2 a turn
1 thin 1	(total 1800) , angles at a point and one
	whole turn (total 360o) reflex angles,
ing the whole	and compare different angles
ne same	
ces	Draw shapes using given dimensions
th the	and angles
al places	
	State and use the properties of a
cimal	rectangle (including squares) to
_	deduce, related facts
tha · ·	
cimal	distinguish between regular and
wholes	irregular polygons based on reasoning
wholes	about equal sides and angles
	Identify describe and represent the
10, 100	nosition of a shape following a
100 and 1 000	reflection or translation using the
, 100 and 1,000	appropriate language and know that
	appropriate language, and know that
	the shape has not changed.

Solve addition and subtraction multi step problems in contexts, deciding which operations and methods to use and why	Perimeter Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres calculate and compare the area of squares and rectangles including using standard units, square centimetres (cm2) and square metres (m2) and estimate the area of irregular shapes	fraction Solve problems which require knowing percentage and decimal equivalents of 1/2 1/4 1/5 2/5 4/5 and those with a denominator of a multiple of 10 or 25.	hundred", and write percentages as a fraction with denominator hundred, and as a decimal fraction Solve problems which require knowing percentage and decimal equivalents of 1/2 1/4 1/5 2/5 4/5 and those with a denominator of a multiple of 10 or 25.		
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Science		 	
Science Living Things and their Habitats To develop scientific vocabulary To identify different groups of living things To understand what a life cycle is To compare the differences between life cycles of mammals and birds To be able to research to find the answer to a scientific question To observe changes	Properties & changes of material How can we compare and group together everyday materials? How can we separate a mixture? Are all changes irreversible? What is a solution? Plan a fair test. To investigate everyday materials.	Animals including humans. describe the changes as humans develop to old age	Earth, Sun and Moon Describe movement of I other planets, relative to Describe Sun, Earth & M approximately spherical Identify scientific evider been used to support of or arguments. Idea of Earth's rotation day/ night & apparent to sun across sky. Planning different types enquiries to answer que including recognising at variables when necessa Describe movement of to relative to Earth. To show what the childr learnt throughout the to map

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Forces

Earth, & to the Sun.

/loon as I bodies.

nce that has r refute ideas

to explain movement of

s of scientific estions nd controlling ary.

the Moon

ren have topic - mind To identify the effects of air resistance, water resistance and friction.

To take measurements using a range of scientific equipment.

To report and present findings.

To explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object.

To plan different types of scientific enquiries to answer questions.

To recognise that some mechanisms including levers, pulleys and gears allow a smaller force to have a greater effect.

Non-core	

Non-core					
Art – Drawing, David Hockney. Who is David Hockney? What work did David Hockney use colour? How do you draw with perspective? Draw the outline of a landscape, focusing on perspective. Add colour to your landscape. Evaluate how effectively we have reproduced Hockey's work.	Art – Drawing, David Hockney. Who is David Hockney? What work did David Hockney produce? How did Hockney use colour? How do you draw with perspective? Draw the outline of a landscape, focusing on perspective. Add colour to your landscape. Evaluate how effectively we have reproduced Hockey's work. <u>Geography – China</u> Where in the world is China? What and where are the two major rivers in China? Who lives in China? What impact did the Grand Canal have on China? How do Chinese people celebrate Chinese New Year? Which World Heritage Site has had the biggest impact on the world – Saltaire or the Grand Canal?	History – Ancient Egyptians What did the earliest civilisations have in common? How did the Ancient Egyptian Empire begin? Why is Ancient Egyptian history so famously difficult to understand? What were the most impressive achievements of Egyptian civilisation? What was society like in ancient Egyptian? Music - Don't Stop Believing by Journey. Where did rock music originate from? Who are the band Journey? What is Bon Jovi's history as a rock star? Listening and appraising Performing Singing.	Design technology. Lavender Bags. Can I explore and evaluate existing products? Can I design my own lavender bag product? Can I use the sewing techniques shown? Can I create my own lavender bag? Can I evaluate my own lavender bags. Art - William Morris. Printing.	History - Victorians and Titus Salt. Who was Titus Salt and is he significant? Was Titus Salt a good employer? Why is Saltaire a World Heritage Site? What was Titus Salt's legacy?	Geography - Australia Where in the world is Australia? What are the four main landform regions of Australia? Who lives in Australia? What is meant by the terms rural and urban? Comparison of Australia and China. Music – Ravi Shankar and South Asian Music. Design and technology. Fruit Cocktails: Can I explain what is needed for a healthy diet? Can I explore and evaluate existing products? Can I design my own smoothie product? Can I peel, chop and grate ingredients? Can I design my own packaging? Can I evaluate my fruit cocktail?

Computing.			
Vector drawing To use different packages to create drawings. <u>Video editing</u> Film, edit and produce a video.	Sharing information Learning how different systems work and how to evaluate search results. Game creating. To plan, design, create and evaluate a game.	<u>Coding</u> To create a maths quiz using ifelseotherwise.	

PSHE			
Physical health and well-being in the media To know that food and drink adverts can use misleading marketing messages in order to make a product seem healthier for consumers We are able to compare the health benefits of a food or drink product in comparison with an advertising campaign To identify advertising as one influence on people's choices about food and drink We are able to analyse how the media portray celebrities To recognise that celebrities can be presented as role models and that they may be a good or not-so-good role model for young people We can explain why we need to be cautious about things we see, hear or read about in the media.	Keeping safe and managing risk Pupils learn about keeping safe online Pupils learn how to stay safe when communicating with other people online. Pupils learn that violence within a relationship is not acceptable. Pupils lean about problems that can occur when someone goes missing from home.	Mental health and well-being – dealing with feelings To learn about a wide range of emotions and feelings and how these are experienced in the body To learn about times of change and how this can make people feel To learn about feelings associated with loss, grief and bereavement	Drug, alcohol and tobar To learn about the risks including cigarettes, e-c cannabis To learn about different tobacco and nicotine pu To learn strategies to re smoking drugs and alcohol

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Special places.	What values are shown in codes for living?	
What is it like to visit the Western Wall if you are Jewish? What is it like to visit Makkah if you are Muslim? Which places or journeys are special to Christians, and why? What do Sikhs consider more important than pilgrimage? Why are some places special to more than one religion?	 To think about the idea of a code for living. To understand that there are different religious beliefs. To think carefully about the Christian ideas of values. To begin to understand that the impact of our values can make people happy or unhappy. To describe aspects of the life and teachings of Prophet Mohammed and how he has influenced the lives of Muslims. To think carefully about the Jewish ideas of values. To understand the value of peace. 	
Physical Education		

	Football	<u>Tchoukball</u>	
<u>Basketball</u>			<u>Cricket</u>
Dance	<u>Gymnastics</u>	<u>Badminton</u>	Tag Rugby

acco education: Different influences

s associated with smoking drugs, cigarettes, shisha and

t influences on drug use – alcohol, roducts esist pressure from others about whether to use drugs –