## Subject Intent





 visits out of school.

| Year Group | 7-8 | Week/s | Topic/Theme <br> Key vocabulary including Tier 3 | Learning Outcomes Knowledge and Skills | Links to: <br> Literacy, Numeracy, SMSC and British Values |
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| Term |  |  | subject specific words |  | Gatsby Benchmarks |
|  |  |  |  |  | Learning Behaviours/Skills Builder |
| Autumn |  | 1-3 | Place Value <br> Digit, number, numeral, partition, combine, total, value, equal, ones, tens, hundreds, compare, order, symbol, more than, less than. | - Counting forwards and backwards in steps of $2,3,5$ and 10 from any number. <br> - Recognising the value of digits in 2-digit and 3 -digit numbers. <br> - Comparing and ordering numbers, using $<,>$ and = correctly. <br> Reasoning and Problem Solving (RPS): Missing number opportunities. <br> Enrichment Activities Ideas: Hiding and finding numbers, partitioning (breaking into groups and sub groups e.g. we need 9 children in the circle and 1 child in the middle, number stair cases. <br> Key Questions: <br> Can you find...? <br> Can you point to....? | Literacy <br> Take part in discussions Skills Builder Staying positive |
|  |  | 4-8 | Number, Addition and Subtraction <br> Parts, whole, combine, partition, total, number bond, multiple, add, subtract, equal, inverse, operation, increase, decrease, equation, calculate, bridging | - Adding 3 single digit numbers. <br> - Recalling and using number bonds to 20. <br> - Using inverse operations to solve missing number problems. <br> - Knowing that additions can be solved in any order but subtractions cannot. <br> RPS: Missing number opportunities <br> Enrichment Activities Ideas: dice games, target practice and scoring games, collect natural objects to add and subtract. <br> Key Questions: <br> What is...? <br> How is....? | Literacy <br> Take part in discussions, talk or write about pictures, answer questions Skills Builder <br> Staying positive, Problem solving <br> Careers <br> Describe yourself, your strengths and preferences |


|  | 9-12 | Multiplication and division <br> Group, set, multiple, multiply, divide, counting, equal, pairs, factor, product, array, row, column, inverse, equation, calculate. | - Recalling and using facts for the two, five and ten multiplication tables. <br> - Solve problems involving multiplication and division using arrays, pictorial representations and concrete objects. <br> - Recognising and using the multiplication and division signs. <br> RPS: Odd one out opportunities <br> Enrichment Activities Ideas: nature multiplication e.g. build a photo collection, make arrays using natural objects e.g. pine cones and egg boxes, multiplication scavenger hunt (two children equal amounts), sharing natural resources or food. <br> Key Questions: <br> Can you find...? <br> Which is the best answer...? | SMSC and British Values <br> Cooperate with others, Offer reasoned views (Mutual Respect and Tolerance) <br> Literacy <br> Talk or write about pictures. <br> Skills Builder <br> Staying positive, Problem solving |
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|  | 13-15 | Properties of Shapes. <br> Circle, square, triangle, rectangle, 2D, flat, 3D solid, cube, cuboid, sphere, pyramid, prism, cone, cylinder, curved, straight, face, side, angle, vertices, line of symmetry. | - Naming a range of 2D and 3D shapes. <br> - Sorting shapes based on their properties. <br> RPS: Odd one out opportunities <br> Enrichment Activities Ideas: 3D shape dens, making stick shapes, building models, 2D stick pictures, create their own Henri Matisse 'Snail' Key Questions: <br> Which one is...? <br> Where is....? | Gatsby Benchmark 4 Skills Builder Creativity |
| Spring | 1-2 | Review of Autumn term | Revisit elements from Autumn Term (as chosen by Class Teacher). <br> - Four operations in contexts (money/measures). <br> - Revisit of shapes. | Gatsby Benchmarks 4 and 6 Skills Builder Aiming High |
|  | 3-6 | Fractions <br> Half, quarter, third, whole, part, equal, split, divide, share, groups, numerator, denominator equivalent. | - Recognising halves, quarters and thirds in a range of contexts. <br> - Writing simple fractions with a numerator and denominator. <br> RPS: True, false or sometimes true opportunities <br> Enrichment Activities Ideas: sharing and scoring games, cook and bake food to be shared e.g. pizza. <br> Key Questions: <br> How would you...? <br> Can you invent....? | SMSC and British Values <br> Offer reasoned views, Cooperate with others (Mutual Respect and Tolerance) <br> Literacy <br> Take part in discussions. <br> Skills Builder <br> Speaking, Listening, teamwork. |
|  | 7-10 | Time <br> O’clock, half past, quarter past/to, day, week, month, year, clock face, hands, hour, minute, second, analogue, digital, am, pm. | - Read analogue and digital clocks using terms 'o'clock', 'half past' and 'quarter past/to'. <br> - Know the months of the year. <br> - Know the number of hours in a day. <br> - Order events by their duration. <br> RPS: Visualisation opportunities | Literacy <br> Talk or write about pictures, use new vocabulary. <br> Gatsby Benchmark 4 <br> Skills Builder <br> Aiming high, staying positive. |


|  |  |  | Enrichment Activities Ideas: make giant pendulums, make an outdoor clock, play time games. <br> Key Questions: <br> Can you list 3...? <br> What time is....? |  |
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|  | 11-12 | Geometry: Sequences, Position and Direction <br> Opposite, 8-point compass (e.g. North-East/South-West), rotate, quarter turn, half turn, whole turn, clockwise, anticlockwise. | - Recognise whole, half and quarter turns. <br> - Discuss and extend patterns involving shapes and rotations. <br> RPS: Visualisation opportunities <br> Enrichment Activities Ideas: obstacle courses, giant spiders' web, design their own treasure map, orienteering. <br> Key Questions: <br> Can you select...? <br> Where is....? | Literacy <br> Use new vocabulary. <br> Skills Builder <br> Leadership, teamwork, problem solving |
| Summer | 1-3 | Money <br> Coin, note, bank card, cash, total, add, change, more, less, customer, increase, decrease, combine. | - Recognise coins of different values. <br> - Combine smaller coins to make different totals. <br> - Compare amount of money. <br> - Find change from 20 p and $£ 1$ (when the cost is a multiple of $10 p$ ). <br> RPS: Word problem opportunities. <br> Enrichment Activities Ideas: visit local shops and services, real treasure hunts, make their own money tree. <br> Key Questions: <br> What is...? <br> How is....? | SMSC <br> Socialise with other pupils and other people. Cooperate with others, Enjoy learning about the world around them. <br> (Mutual Respect and Tolerance) <br> Literacy <br> Role play <br> Gatsby Benchmarks 4 and 6 <br> Skills Builder <br> Problem solving <br> Careers <br> Recognise the qualities and skills you have demonstrated both in and out of school that will help to make you employable |
|  | 4-7 | Measures: Length, capacity and mass <br> Measuring cylinder, beaker, scales, balancing scales, metre stick, trundle wheel, millilitre, centimetre, metre, millilitre, litre, gram, kilogram, measure, estimate, record. | - Measure with a reasonable level of accuracy and record findings on a table or chart. <br> - Compare measurements using < > and = signs. <br> - Solve addition and subtraction problems involving measures. <br> RPS: Word problem opportunities. <br> Enrichment Activities Ideas: make and experiment making different smoothies, go on a massive treasure hunt, design and make their own scales <br> Key Questions: <br> How would you show...? <br> How would you explain....? | Literacy <br> Take part in discussions, develop vocabulary <br> Gatsby Benchmark 4 <br> Skills Builder <br> Staying positive, Problem solving |


|  | 8-10 | Geometry: Properties of Shapes <br> Circle, square, triangle, rectangle, 2D, flat, 3D solid, cube, cuboid, sphere, pyramid, prism, cone, cylinder, curved, straight, face, side, angle, vertices, rotate, order, sequence, net. | - Recognise 2D shapes on the faces of 3D objects. <br> - Use shapes in patterns and sequences. <br> - Describe 2D and 3D shapes based on their properties. <br> - Begin to recognise right angles in 2D shapes. <br> RPS: Opportunities to use diagrams, charts and tables <br> Enrichment Activities Ideas: make their own shelters, practice putting up tents, use large objects to make natural patterns, box modelling. <br> Key Questions: <br> What can you say about...? <br> Which one....? | Literacy <br> Use new vocabulary, make marks on materials. SMSC and British Values <br> Participate positively in art. (Individual Liberty) Skills Builder Creativity |
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|  | 11-12 | Statistics <br> Frequency, total, mark, tally, survey, collect, group, record, category, pictogram, bar chart, axis, scale, icon, conclusion | - Retrieve information from pictograms, tallies and bar charts. <br> - Complete tallies, pictograms and bar chart. <br> - Draw simple conclusions from tallies, bar charts and pictograms. <br> RPS: Opportunities to use diagrams, charts and tables <br> Enrichment Activities Ideas: Make giant tally charts using sticks, collect data about nature and present it using natural objects. <br> Key Questions: <br> Which one...? <br> Who was....? | Literacy <br> Ask questions, answer questions, listen to an opinion, use punctuation. <br> SMSC and British Values <br> Enjoy learning about the world around them. (Mutual Respect) <br> Skills Builder <br> Listening, speaking, teamwork |

## Intended impact


 teamwork, speaking and listening skills.

