



Manor Drive Primary Academy

Maths Curriculum Overview

Reception

| Block 1 | |
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| W1 | <p>R.5.1 Develop spatial awareness via interaction with objects</p> <p>R.5.2 Use positional language to describe how objects are positioned relative to others</p> <p>R.5.3 Continue and create patterns of objects, actions and sounds, focusing on AB and ABC patterns</p> <p>R.5.4 Continue and create patterns with AAB, ABB, AABB patterns</p> <p>R.5.5 Understand parts and wholes through use of interaction with objects that fit together to make a whole (e.g. simple jigsaws) and with objects that have moving parts</p> |
| W2 | <p>R.5.6 Understand that that people can move to a place and then find their way back to where they started</p> <p>R.5.7 Describe hidden objects and describe arrangements of objects that are shown then hidden from view</p> <p><u>THIS LEARNING SHOULD CONTINUE THROUGHOUT OTHER COMPONENTS OF MATHEMATICS TEACHING AND IS REINFORCED VIA THE INITIAL STAGES OF THE SCIENCE CURRICULUM (UNDERSTANDING THE WORLD)</u></p> |
| W3 | <p>R.1.10 Perceptually subitise groups of objects 1-5 in different arrangements (line, pair structure, dice, random)</p> <p>R.1.1 Count up to 5 (cardinal and ordinal representations)</p> <p>R.1.2 Count down from 5 (cardinal and ordinal representations)</p> |
| W4 | <p>R.1.3 Count up from any number from 1-5 (cardinal and ordinal representations)</p> <p>R.1.4 Count down from any number from 1-5 (cardinal and ordinal representations)</p> |
| W5 | <p>R.1.5 Recognise numerals to 5</p> <p>R.1.6 Use 1:1 counting up to 5</p> <p>R.1.7 Demonstrate cardinal principle with objects up to 5</p> |

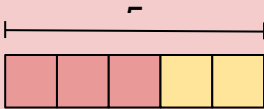
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| W6 | <p>R.1.8 Demonstrate order irrelevance principle up to 5</p> <p>R.1.9 Count non-tangible objects up to 5 (e.g. sounds)</p> |
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Block 2

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| W1 | <p>R.2.1 Sort objects into groups based on characteristics</p> <p>R.2.2 Sort objects into equal groups and determine 'how many' in each group, including representations</p> |
| W2 | <p>R.3.1 Compare groups of <i>identical objects</i> up to 5 using language of "more than, fewer than, same as" (e.g. in adjacent 5-frames)</p> <p>R.3.2 Compare groups of <i>different objects</i> up to 5 using language of "more than, fewer than, same as" (e.g. in adjacent 5-frames)</p> |

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| W3 | <p>R.4.1 Know one more than numbers up to 5 (cardinal and ordinal representations)</p> <p>R.4.2 Know one less than numbers up to 5 (cardinal and ordinal representations)</p> <p>R.4.3 Understand zero with concrete objects</p> |
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| W4 | <p>R.4.4 Represent number bonds 2-5 in visual representations (part-whole models) including zero as one addend in some cases, progressing from representative objects to manipulatives to discrete bar models, e.g.</p> |
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| W5 | <p>R.4.5 Know number bonds from to 2-5 with use of manipulatives and visual representations</p> |
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| W6 | <p>R.6.1 Order important times in their day and use positional language to describe when events happen</p> <p>R.6.2 Develop some sense of periods of time (minute, hour, day)</p> |
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Block 3

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| W1 | <p>R.7.1 Count up to 10</p> <p>R.7.2 Count down from 10</p> <p>R.7.3 Count up from any number from 0-9 (cardinal and ordinal representations)</p> <p>R.7.4 Count down from any number from 1-10 (cardinal and ordinal representations)</p> <p>R.7.5 Use 1:1 counting up to 10</p> |
| W2 | <p>R.7.6 Demonstrate cardinal principle with objects up to 10</p> <p>R.7.7 Demonstrate order irrelevance principle up to 10</p> <p>R.7.8 Count non-tangible objects up to 10 (e.g. sounds)</p> <p>R.7.9 Recognise numerals to 10</p> |
| W3 | <p>R.7.10 Conceptually subitise groups of objects from 6-10 in two different arrangements within a ten-frame (pair structure and '5-and-a-bit' structure), using fingers and using bead-strings/rekenrek</p> <p>R.7.11 Compare groups of <i>identical objects</i> up to 10 using language of "more than, fewer than, same as" (e.g. in adjacent 10-frames)</p> |
| W4 | <p><u>Addition and subtraction</u></p> <p>R.8.1 Understand addition as combining sets of objects (aggregation)</p> <p>R.8.2 Understand part-whole models with concrete objects and numerals</p> |
| W5 | <p>R.8.3 Partition 5 into two parts using concrete objects and part-whole models (specifically discrete bar models and cherry diagrams)</p> <p>R.8.4 Partition 6 into two parts using concrete objects and part-whole models (specifically discrete bar models and cherry diagrams)</p> <p>R.8.5 Partition 7 into two parts using concrete objects and part-whole models (specifically discrete bar models and cherry diagrams)</p> |
| W6 | <p>R.8.6 Partition 8 into two parts using concrete objects and part-whole models (specifically discrete bar models and cherry diagrams)</p> <p>R.8.7 Partition 9 into two parts using concrete objects and part-whole models (specifically discrete bar models and cherry diagrams)</p> <p>R.8.8 Partition numbers 6-9 into more than two numbers (e.g. $6 = 1 + 2 + 3$) using concrete objects and part-whole models</p> |

Block 4

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| W1 | R.9.1 Double numbers up to 5 with use of manipulatives and visual representations (including ten-frames) |
| W2 | R.9.2 Halve even numbers up to 10 with use of manipulatives and visual representations (including ten frames) R.9.3 Recognise odd and even numbers (e.g. using a pair structure in a ten-frame) R.9.4 Count even numbers to 10 - skip counting in twos (cardinal and ordinal representations) R.9.5 Count odd numbers to 9 - skip counting in twos (cardinal and ordinal representations) |
| W3 | R.10.1 Know 1 more and one less than numbers 6-9 R.10.2 Know 2 more than an even number is the next even number R.10.3 Know that 2 more than an odd number is the next odd number |
| W4 | R.10.4 Know number bonds from 6-9 that are based on 1 more (e.g. 8 is composed of 7 and 1) with use of manipulatives and visual representations R.10.5 Know number bonds from 6-9 that are based on 2 more (e.g. 8 is composed of 6 and 2) with use of manipulatives and visual representations |
| W5 | R.10.6 Know number bonds from 6-9 that are based on '5-and-a-bit' structure (e.g. 8 is composed of 5 and 3) with use of manipulatives and visual representations R.10.7 Know numbers bonds to 10 that are based on doubles (e.g. 6 is composed of 3 and 3; 10 is composed of 5 and 5) with use of manipulatives and visual representations |
| W6 | |

Block 5

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| W1 | R.10.8 Partition 10 using a part-whole model |
| W2 | R.10.9 Know number bonds to 10 with use of manipulatives and visual representations |
| W3 | R.10.10 Understand that the quantity of a group can be changed by adding more - an augmentation structure (e.g. using “ <i>First... Then... Now...</i> ” structure); understand that adding zero to a number leaves it unchanged |
| W4 | R.10.11 Understand that the quantity of a group can be changed by taking items away - a reduction structure (e.g. using “ <i>First... Then... Now...</i> ” structure); understand that subtracting zero from a number leaves it unchanged |
| W5 | R.11.1 Recognise number from 11-19 as ‘10-and-a bit’ (e.g. building ‘staircases’ to see this pattern, using adjacent ten-frames) |
| W6 | R.11.2 Count up to 20 R.11.3 Count down from 20 R.11.4 Count up from any number from 1-20 (cardinal and ordinal representations) R.11.5 Count down from any number from 1-20 (cardinal and ordinal representations) R.11.6 Count beyond 20 (continuing pattern in ones perhaps as far as 29). |

Block 6

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| W1 | R.12.1 Recognise common 2D shapes in various orientations |
| W2 | R.12.2 Describe common 2D shapes using mathematical language (e.g. sides, corners, straight, curved) |
| W3 | R.12.3 Recognise common 3D shapes in various orientations |
| W4 | R.12.4 Describe common 3D shapes using mathematical language (e.g. faces, edges, vertices) |
| W4 | R.13.1 Use language of length to describe and compare objects (e.g. <i>tall, short, long, wide, narrow, near, far</i> and associated comparative and superlative adjectives) |
| W5 | R.13.2 Use manipulatives to make non-standard measurements (e.g. hands, cubes, blocks) |
| W5 | R.13.3 Use language of weight to describe and compare objects (e.g. <i>heavy, light</i> and associated comparative and superlative adjectives) |
| W6 | R.13.4 Use manipulatives and balances to make non-standard measurements (e.g. cubes) |
| W6 | R.13.5 Use language of capacity to describe containers (e.g. <i>full, nearly full, half full, nearly empty, empty, tall, thin, narrow, wide, shallow</i>) and to compare which objects have greater or lesser capacity (e.g. <i>holds more, holds less</i>) |

Arithmetic

Fractions

Geometry

Measures & Time

Properties of number and place value

Statistics