







Module 3: Animating Sprites

Investigation 1			Investigation 2			Investigation 3			Investigation 4		
Investigation	Activity	Activity description / Learning Intention	Investigation	Activity	Activity description / Learning Intention	Investigation	Activity	Activity description / Learning Intention	Investigation	Activity	Activity description / Learning Intention
 1 Animating Sprites	3.1.1 Multiple Sprites	Making sprites react	 2 Meeting Conditions	3.2.1 Repeat unfill...	Repeated movement	 3 Broadcasting Messages	3.3.1 Broadcast and Receive	Role play with event blocks	 3 Interactive Stories	3.4.1 Reading Scripts	Predicting outcomes from scripts
	3.1.2 Teleporting Nano	Using the hide, show and switch blocks		3.2.2 Touching Colour	Using direction and degrees with conditional blocks		3.3.2 Introductions: One to One	Conversations between two sprites		3.4.2 Extension: The Story of the Sprites	Create interactions between your sprites using time, position, event and conditional blocks
	3.1.3 Jumping Tera	Using time and the Cartesian plane to move sprites		3.2.3 Walking in The Air	Controlling position using the x and y axes		3.3.3 Come to Tera: One To Many	Conversations with multiple sprites			
	3.1.4 Walking Pico	Using costumes to create sprite movement		3.2.4 Unplugged: True or False?	Testing knowledge of position						
Stage 2 Content	<p>Mathematics MA2-17MG uses simple maps and grids to represent position and follow routes, including using compass directions Draw and describe routes or paths on grid-referenced maps and plans - use digital technologies involving maps, position and paths (Communicating) - use grid references on maps to describe position, eg 'The lion cage is at B3' - use grid references in games (Communicating) Identify and mark particular locations on maps and plans, given their grid references MA2-13MG reads and records time in one-minute intervals and converts between hours, minutes and seconds Convert between units of time - convert between units of time and recall time facts, eg 60 seconds = 1 minute, 60 minutes = 1 hour, 24 hours = 1 day MA2-16MG identifies, describes, compares and classifies angles Identify angles as measures of turn and compare angle sizes in everyday situations Identify 'angles' with two arms in practical situations, eg the angle between the arms of a clock MA2-17MM uses appropriate terminology to describe, and symbols to represent, mathematical ideas MA2-2WM selects and uses appropriate mental or written strategies, or technology, to solve problems MA2-3WM checks the accuracy of a statement and explains the reasoning used</p> <p>Digital Technologies 3T2-3DP-T defines problems, describes and follows algorithms to develop solutions - develop a sequence of steps and decisions (algorithms) to solve a problem (ACTDP010)</p>										
	Stage 3 Content	<p>Mathematics MA3-8NA analyses and creates geometric and number patterns, constructs and completes number sentences, and locates points on the Cartesian plane Introduce the Cartesian coordinate system using all four quadrants (ACAMG14) - recognise that the number plane (Cartesian plane) is a visual way of describing location on a grid - recognise that the number plane consists of a horizontal axis (x-axis) and a vertical axis (y-axis), creating four quadrants - identify the point of intersection of the two axes as the origin, having coordinates (0, 0) - plot and label points, given coordinates, in all four quadrants of the number plane MA3-15MG manipulates, classifies and draws two-dimensional shapes, including equilateral, isosceles and scalene triangles, and describes their properties Describe translations, reflections and rotations of two-dimensional shapes - use the terms 'translate', 'reflect' and 'rotate' to describe the movement of two-dimensional shapes MA3-13MG uses 24-hour time and am and pm notation in real-life situations, and constructs timelines Determine and compare the duration of events - select an appropriate unit to measure a particular period of time MA3-17MM describes and represents mathematical situations in a variety of ways using mathematical terminology and some conventions MA3-2WM selects and applies appropriate problem-solving strategies, including the use of digital technologies, in undertaking investigations MA3-3WM gives a valid reason for supporting one possible solution over another</p> <p>Digital Technologies 3T3-3DP-T defines problems, and designs, modifies and follows algorithms to develop solutions - design, modify and follow simple algorithms - extend sequences of steps to provide a series of possibilities through branching</p>									
Stage 4 Content		<p>Mathematics MA4-11NA creates and displays number patterns; graphs and analyses linear relationships; and performs transformations on the Cartesian plane Given coordinates, plot points on the Cartesian plane, and find coordinates for a given point - plot and label points on the Cartesian plane, given coordinates, including those with coordinates that are not whole numbers - identify and record the coordinates of given points on the Cartesian plane, including those with coordinates that are not whole numbers Plot linear relationships on the Cartesian plane, with and without the use of digital technologies MA4-18MG identifies and uses angle relationships, including those related to transversals on sets of parallel lines Recognise the geometrical properties of angles at a point - identify and name right angles, straight angles, angles of complete revolution and vertically opposite angles embedded in diagrams MA4-17MM communicates and connects mathematical ideas using appropriate terminology, diagrams and symbols MA4-2WM applies appropriate mathematical techniques to solve problems MA4-3WM recognises and explains mathematical relationships using reasoning</p> <p>Digital Technologies TE4-4DP designs algorithms for digital solutions and implements them in a general-purpose programming language - trace algorithms to predict output for a given input and to identify errors (ACTDP029)</p>									

Investigation 1			Investigation 2			Investigation 3			Investigation 4		
Investigation	Activity	Activity description / Learning Intention	Investigation	Activity	Activity description / Learning Intention	Investigation	Activity	Activity description / Learning Intention	Investigation	Activity	Activity description / Learning Intention
873 1 Place Value Models	4.1.1 Digits Up, Digits Down	Using costumes to model addition and subtraction	5+52 2 Timers and Stopwatches	4.2.1 Build a Stopwatch	Build a stopwatch using block script	7 8 3 The Conversion Game	4.3.1 Playing the Conversion Game	Make the target number using random number generators	2 5 3 Exploring Conversions	4.4.1 Converting Length	Make the target length in kilometres using numbered sprites in metres
	4.1.2 Playing with Place Value	Understanding place value to thousands		4.2.2 Countdown Conundrum	Using duplication of script to countdown with time		4.4.2 Converting Mass	Make the target mass in kilograms using numbered sprites in grams			
				4.2.3 Dizzy Dials	Using analogue clock sprites to create active timers		4.4.3 Converting Time	Make the target digital time using analogue sprites			
Stage 2 Content	<p>Mathematics</p> <p>MA2-4NA applies place value to order, read and represent numbers of up to five digits Recognise, model, represent and order numbers to at least 10 000 (ACMNA052) - represent numbers of up to four digits using objects, words, numerals and digital displays - make the largest and smallest number from four given digits (Communicating)</p> <p>5NA uses mental and written strategies for addition and subtraction involving two-, three-, four and five-digit numbers Recall addition facts for single-digit numbers and related subtraction facts to develop increasingly efficient mental strategies for computation - apply known single-digit addition and subtraction facts to mental strategies for addition and subtraction of two-, three- and four-digit numbers Apply place value to partition, rearrange and regroup numbers to at least tens of thousands to assist calculations and solve problems - pose simple addition and subtraction problems and apply appropriate strategies to solve them (Communicating, Problem Solving)</p> <p>MA2-9MG measures, records, compares and estimates lengths, distances and perimeters in metres, centimetres and millimetres, and measures, compares and records temperatures Measure, order and compare objects using familiar metric units of length - compare and order lengths and distances using metres and centimetres Use scaled instruments to measure and compare lengths - record lengths and distances using decimal notation to two decimal places MA2-12MG measures, records, compares and estimates the masses of objects using kilograms and grams Use scaled instruments to measure and compare masses - recognise that there are 1000 grams in one kilogram, ie 1000 grams = 1 kilogram MA2-13MG reads and records time in one-minute intervals and converts between hours, minutes and seconds Convert between units of time - convert between units of time and recall time facts, eg 60 seconds = 1 minute, 60 minutes = 1 hour, 24 hours = 1 day - recognise the coordinated movements of the hands on an analog clock - read analog and digital clocks to the minute, including using the terms 'past' and 'to', eg 7:35 is read as 'seven thirty-five' or 'twenty-five to eight' MA2-1WM uses appropriate terminology to describe, and symbols to represent, mathematical ideas MA2-2WM selects and uses appropriate mental or written strategies, or technology, to solve problems</p>		MA2-								
	<p>Digital Technologies</p> <p>3T2-3DP-T defines problems, describes and follows algorithms to develop solutions - develop a sequence of steps and decisions (algorithms) to solve a problem (ACTDP010)</p>										
Stage 3 Content	<p>Mathematics</p> <p>MA3-4NA orders, reads and represents integers of any size and describes properties of whole numbers Recognise, represent and order numbers to at least tens of millions - apply an understanding of place value and the role of zero to read and write numbers of any size MA3-5NA selects and applies appropriate strategies for addition and subtraction with counting numbers of any size efficient mental and written strategies and apply appropriate digital technologies to solve problems - add three or more numbers with different numbers of digits, with and without the use of digital technologies, eg 42 000 + 5123 + 246 MA3-9MG selects and uses the appropriate unit and device to measure lengths and distances, calculates perimeters, and converts between units of length Choose appropriate units of measurement for length - recognise that there are 1000 metres in one kilometre, ie 1000 metres = 1 kilometre Connect decimal representations to the metric system the equivalence of whole-number and decimal representations of measurements of length, eg 1.65 cm is the same as 1.65 m MA3-12MG selects and uses the appropriate unit and device to measure the masses of objects, and converts between units of mass Connect decimal representations to the metric system - recognise the equivalence of whole-number and decimal representations of measurements of mass, eg 3 kg 250 g is the same as 3.25 kg MA3-13MG uses 24-hour time and am and pm notation in real-life situations, and constructs timelines Determine and compare the duration of events - use a stopwatch to measure and compare the duration of events MA3-1WM describes and represents mathematical situations in a variety of ways using mathematical terminology and some conventions MA3-2WM selects and applies appropriate problem-solving strategies, including the use of digital technologies, in undertaking investigations MA3-3WM gives a valid reason for supporting one possible solution over another</p>		Use								
	<p>Digital Technologies</p> <p>3T3-3DP-T defines problems, and designs, modifies and follows algorithms to develop solutions - design, modify and follow simple algorithms - extend sequences of steps to provide a series of possibilities through branching</p>		- recognise								
Stage 4 Content	<p>Mathematics</p> <p>MA4-1WM communicates and connects mathematical ideas using appropriate terminology, diagrams and symbols MA4-2WM applies appropriate mathematical techniques to solve problems MA4-3WM recognises and explains mathematical relationships using reasoning</p>										
	<p>Digital Technologies</p> <p>TE4-4DP designs algorithms for digital solutions and implements them in a general-purpose programming language - trace algorithms to predict output for a given input and to identify errors (ACTDP029)</p>										



Module 5: Exploring Mathematical Relationships

Investigation 1			Investigation 2			Investigation 3			Investigation 4		
Investigation	Activity	Activity description / Learning Intention	Investigation	Activity	Activity description / Learning Intention	Investigation	Activity	Activity description / Learning Intention	Investigation	Activity	Activity description / Learning Intention
 1 Polygon Fireworks Night Skyline	5.1.1 Ask and Answer	Using conversation blocks to draw different polygons	 2 Mathematically Similar Rectangles	5.2.1 A Sequence of Squares	Creating squares with ascending side lengths	 3 Grid World: For Exploring Similarity	5.3.1 Enter the Grid World	Drawing shapes with variable blocks*	 3 Using the Grid World	5.4.1 Using the Grid World	Relationships between and within rectangles
	5.1.2 Unplugged: Polygon Predictions	Use scripts to predict what polygons will be created		5.2.2 Altering Rectangles	Using custom blocks to create rectangles with ascending side lengths		5.3.2 Unplugged: Module 5 Assessment	Identifying and applying Module 5 concepts		5.4.2 Bridging and Solving Problems	Problem Solving questions
	5.1.3 Naming Values	Creating scripts to draw polygons using conversations		5.2.3 Exploring Mathematical Similarity	Using height and base values to create rectangles with ascending side lengths						
	5.1.4 The Sky at Night	Drawing repeated polygons		5.2.4 Unplugged: Rectangle Jumble	Using scale to identify rectangles						
Stage 2 Content	<p>Mathematics MA2-15MG manipulates, identifies and sketches two-dimensional shapes, including special quadrilaterals, and describes their features Compare and describe features of two-dimensional shapes, including the special quadrilaterals - manipulate, compare and describe features of two-dimensional shapes, including the special quadrilaterals: parallelograms, rectangles, rhombuses, squares, trapeziums and kites - draw representations of regular and irregular two-dimensional shapes in different orientations Create symmetrical patterns, pictures and shapes, with and without the use of digital technologies - create symmetrical patterns, designs, pictures and shapes by translating (sliding), reflecting (flipping) and rotating (turning) one or more common shapes MA2-1WM uses appropriate terminology to describe, and symbols to represent, mathematical ideas MA2-2WM selects and uses appropriate mental or written strategies, or technology, to solve problems MA2-3WM checks the accuracy of a statement and explains the reasoning used</p>										
	<p>Digital Technologies ST2-3DP-T defines problems, describes and follows algorithms to develop solutions - develop a sequence of steps and decisions (algorithms) to solve a problem (ACTDIP010)</p>										
Stage 3 Content	<p>Mathematics MA3-15MG manipulates, classifies and draws two-dimensional shapes, including equilateral, isosceles and scalene triangles, and describes their properties Classify two-dimensional shapes and describe their features - recognise that two-dimensional shapes can be classified in more than one way, eg a rhombus can be more simply classified as a parallelogram (Communicating, Reasoning) - identify and draw regular and irregular two-dimensional shapes from descriptions of their side and angle properties - use computer drawing tools to construct a shape from a description of its side and angle properties (Communicating, Problem Solving) MA3-1WM describes and represents mathematical situations in a variety of ways using mathematical terminology and some conventions MA3-2WM selects and applies appropriate problem-solving strategies, including the use of digital technologies, in undertaking investigations MA3-3WM gives a valid reason for supporting one possible solution over another</p>										
	<p>Digital Technologies ST3-3DP-T defines problems, and designs, modifies and follows algorithms to develop solutions - design, modify and follow simple algorithms - extend sequences of steps to provide a series of possibilities through branching</p>										
Stage 4 Content	<p>Mathematics MA4-17MG classifies, describes and uses the properties of triangles and quadrilaterals, and determines congruent triangles to find unknown side lengths and angles Investigate the properties of special quadrilaterals (parallelograms, rectangles, rhombuses, squares, trapeziums and kites) - use techniques such as paper folding or measurement, or dynamic geometry software, to investigate the properties of quadrilaterals (Problem Solving, Reasoning) Information and communication technology capability Critical and creative thinking - sketch and label quadrilaterals from a worded or verbal description (Communicating) - classify special quadrilaterals on the basis of their properties Literacy Critical and creative thinking - describe a quadrilateral in sufficient detail for it to be sketched (Communicating) MA4-1WM communicates and connects mathematical ideas using appropriate terminology, diagrams and symbols MA4-2WM applies appropriate mathematical techniques to solve problems MA4-3WM recognises and explains mathematical relationships using reasoning</p>										
	<p>Digital Technologies TE4-4DP designs algorithms for digital solutions and implements them in a general-purpose programming language - trace algorithms to predict output for a given input and to identify errors (ACTDIP029)</p>										



Module 6: Coordinates and Geometry

Investigation 1			Investigation 2																	
Investigation	Activity	Activity description / Learning Intention	Investigation	Activity	Activity description / Learning Intention															
1 Emerging Shapes	6.1.1 Restless Fleeeee	Using more complex script algorithms with the Cartesian plane	2 Coordinate Shapes	6.2.1 Letters and Coordinates	Games with coordinates															
	6.1.2 Unplugged & Hands On: Envisage and Explain	Using Cartesian Plane coordinates to complete regular and irregular 2D shapes		6.2.2 Busy Fleeeee and Clever Points	Coordinates and drag mode															
	6.1.3 Introducing Scale	Using scaled dots to produce 2D shapes		6.2.3 Tricky Triangles	Creating triangles using coordinates															
	6.1.4 Dotty Patterns	Using coordinates to create irregular 2D shapes		6.2.4 Quirky Quadrilaterals	Creating quadrilaterals using coordinates															
Stage 2 Content	Mathematics MA2-17MG uses simple maps and grids to represent position and follow routes, including using compass directions Draw and describe routes or paths on grid-referenced maps and plans - use digital technologies involving maps, position and paths (Communicating) - use grid references on maps to describe position, eg The lion cage is at B3 - use grid references in games (Communicating) Identify and mark particular locations on maps and plans, given their grid references MA2-15MG manipulates, identifies and sketches two-dimensional shapes, including special quadrilaterals, and describes their features Compare and describe features of two-dimensional shapes, including the special quadrilaterals - manipulate, compare and describe features of two-dimensional shapes, including the special quadrilaterals; parallelograms, rectangles, rhombuses, squares, trapeziums and kites - draw representations of regular and irregular two-dimensional shapes in different orientations Create symmetrical patterns, pictures and shapes, with and without the use of digital technologies - create symmetrical patterns, designs, pictures and shapes by translating (sliding), reflecting (flipping) and rotating (turning) one or more common shapes MA2-1WM uses appropriate terminology to describe, and symbols to represent, mathematical ideas MA2-2WM selects and uses appropriate mental or written strategies, or technology, to solve problems MA2-3WM checks the accuracy of a statement and explains the reasoning used Digital Technologies ST2-3DP-T defines problems, describes and follows algorithms to develop solutions - develop a sequence of steps and decisions (algorithms) to solve a problem (ACTDIP010)																			
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