| | Shape-SSM | | | | | |
|--|---|--|--|--|--|--|
| Knowledge | Children recognize and explore big and small shapes through hands-on activities, helping them understand size differences. | | | | | |
| | They demonstrate an understanding of small shapes by identifying and comparing them with larger shapes in their environment. | | | | | |
| | Children develop an ability to compare the sizes of different shapes, such as identifying the smallest shape in a set of objects. | | | | | |
| | Through exploration, children begin to show curiosity about how the position of shapes changes and affects how they interact with one another. | | | | | |
| | They learn to identify and select shapes based on their size, such as finding a big shape or a small one from a group. | | | | | |
| | Children start exploring how shapes fit together or don't fit, experimenting with rotation and position to see which shapes align. | | | | | |
| | They learn to recogthis nize and name common 2D shapes, such as circles, squares, and triangles, and identify them in the environment. | | | | | |
| | Children also explore 3D shapes like cubes and spheres, learning to describe them using terms such as "edges," "faces," and "vertices." | | | | | |
| | By comparing the sizes of different shapes, children develop an understanding of properties like "bigger," "smaller," and "taller," which helps them in | | | | | |
| | sorting and classifying shapes. | | | | | |
| | Children apply their knowledge to more complex tasks, such as measuring the perimeter of shapes using a ruler and identifying angles in 2D shapes. | | | | | |
| Engagement Exploration: Do children show interest when presented with different shapes (e.g., circle, square, triangle)? Do they reach out to touch or explore | | | | | | |
| model | del shapes with their hands? | | | | | |
| | | | | | | |
| | Realisation : Do children notice that shapes are different from one another and start to explore how they feel (e.g., touching the corners of a square or | | | | | |
| | the curved edges of a circle)? Do they show surprise when a shape is hidden or reappears? | | | | | |
| | | | | | | |
| | Anticipation: When given a set of shapes, do children automatically reach for or point to a shape they recognize, like a circle or square? Do they | | | | | |
| | vocalize or show excitement when they see a familiar shape? | | | | | |
| | | | | | | |
| | Persistence : Do children return to a particular shape or set of shapes, trying to interact with them multiple times? Do they keep playing with or looking | | | | | |
| | at shapes when presented again? | | | | | |
| | | | | | | |
| | Initiation: Can children independently pick up a shape to explore, point to it, or make a choice between different shapes? Do they begin to understand | | | | | |
| | that shapes can be used to create a pattern or complete a simple shape activity (e.g., putting together a shape puzzle)? | | | | | |

| H4 To recognize and explore the concept of big shapes. Big Shape Hunt: Hide different big shapes around the room or play area, encouraging children to search for and find them. 1. Pupils search for chave gone out of sig to the shape is using words like "big" or "larger" to reinforce the concept. 1. Pupils search for chave gone out of sig to using beginning of object is children to explore volte a variety of small shapes for the shape is namely beginning of object is children to explore. Use sensory materials like texture shapes is namel objects. 1. Pupils search for chave gone out of sig to using the shape is namely beginning of object is small shapes of objects. To explore objects and shapes that are hilden from sight, showing curiosity about where they are. To show interest in matching big and small shapes or objects. S. Small Softer C. Use sensory materials like texture shapes in to two groups, big and small shapes or objects. 3. They demonstrate is the work. Find the Smallest Shape is no set of objects. Find the Smallest Shape: Present a set of shapes and ask children to find the smallest cane. Shape Position Exploration: Use a table or tray to arrange big and small shapes to identify the one that is smallest, using language like "this one is they" or "this one is the smallest." 3. They demonstrate position of shapes affects where they can go or fit in relation to other objects. Find the Smallest Shape: Present a set of shapes and ask children to find the smallest one. Encourage them thide or tray to arrange big and small shapes to identify the one that is smallest." Shape Peekabo: Hide shapes solitoned relative to each other and demonstrate how the shapes is position might affect where it tang o. Shape Peekabo: Hi | objects that ght, hearing or ng the permanence objects and e interest in ationship |
|--|--|

| H5 | To find objects in familiar places. | Shape Search: Hide a big and small version of the same shape | 1. Pupils search intentionally for |
|----|--|---|---------------------------------------|
| | To identify and select big and small shapes. | around the room or in a sensory tray. Ask children to find and | objects in their usual place |
| | To compare which shape is bigger or smaller. | identify the shapes by size. | 2. They find big and small objects on |
| | To explore where shapes can be placed and how their | Big or Small Sorting: Provide a mix of big and small shapes. Ask | request |
| | position changes. | children to sort them into two groups: big and small. | 3. They compare the overall size of |
| | To understand which shape is the biggest or smallest | Shape Match: Place a big shape and a small shape on the table. | one object with that of another |
| | in a group. | Ask children to match each shape with another of the same size. | where there is a marked difference |
| | To show curiosity about how objects are positioned | Shape Comparison: Show two shapes of different sizes and ask | 4. They explore the position of |
| | in space. | children to identify which is big or small. | objects Topic is still shape. I need |
| | To match shapes by size when asked. | Position Exploration : Place shapes in different positions and ask | some learning intentions to begin |
| | To explore how shapes fit or don't fit together based | children to explore where the shapes fit (e.g., on top, beside, or | with |
| | on size. | inside other objects). | |
| | | Shape Stack: Stack big and small shapes. Ask children to build | |
| | | their own stacks and compare which is taller or shorter. | |
| | | Shape Discovery: Place shapes behind an object (like a box or | |
| | | cloth). Ask children to find the shapes and describe them by size. | |
| | | Shape and Position Game: Ask children to place a big shape in | |
| | | one spot and a small shape in another. Discuss the relationship | |
| | | between their positions. | |
| | | | |
| H6 | To learn to search for shapes removed from a puzzle, | Shape Puzzle Search: Set up a shape puzzle with one piece | 1. Pupils search for objects not |
| | demonstrating an understanding of object | hidden. Ask the pupil to find the missing piece and fit it back into | found in their usual place |
| | permanence. | the puzzle, focusing on the shape and its position. | demonstrating their understanding |
| | To learn to compare the size of shapes, noticing | Comparing Shape Sizes: Lay out two or more shapes of the same | of object permanence |
| | subtle differences in size. | kind but in different sizes (e.g., two circles, one big and one | 2. Pupils compare the overall size |
| | To learn to manipulate 3D shapes by building with | small). Encourage the pupil to point to or match the biggest or | of one object with that of another |
| | them or fitting them through appropriately-sized | smallest shape. | where the difference is not great |
| | openings. | Building with 3D Shapes: Provide 3D shapes like cubes, cones, | 3. They manipulate three- |
| | To learn to explore and compare different 3D shapes, | and cylinders. Ask the pupil to build a tower, place shapes | dimensional shapes |
| | identifying similarities and differences in form. | through a hole that fits their size, or create a structure with the | |
| | To learn to observe how the position of shapes affects | shapes. | |
| | how they fit or interact with other shapes. | Exploring 3D Shape Differences : Give the pupil a set of different | |
| | To learn to experiment with rotating and flipping | 3D shapes (e.g., cube, sphere, pyramid). Let them explore the | |
| | shapes to better understand their properties. | shapes by holding, stacking, and rolling them. Discuss how they | |
| | | are different. | |

| | | Position Play with Shapes: Use large 2D or 3D shapes and ask the pupil to place them in different positions relative to each other, like "put the square on top of the triangle" or "place the circle behind the cube." Playdough and 3D Shapes: Provide 3D shapes (e.g., cube, pyramid, cone) and playdough. Encourage the pupil to rotate and flip the shapes, then press them into the playdough to make impressions, exploring how the shapes fit and change their position. | |
|----|--|--|--|
| H7 | To learn to respond to the word "forwards" by moving a shape in that direction. To learn to respond to the word "backwards" by moving a shape in that direction. To learn to find a shape based on its size (e.g., big or small). To learn to find a shape based on its colour. To learn to find a shape based on whether it has round or straight edges. To learn to use familiar words to compare the size of two shapes (e.g., bigger, smaller). 7. To learn to use familiar words to compare quantities of shapes (e.g., more, fewer). | Moving Shapes Forwards – Place a shape in front of the pupil and say, "Move the shape forwards." Encourage them to push or slide it in that direction. You can also use a ramp with a sphere or cylinder, prompting them to release it and watch it roll forwards. Moving Shapes Backwards – Place a shape in front of the pupil and say, "Move the shape backwards." Support them in sliding or rolling it in that direction. If using a ramp, have them pull the shape back up before releasing it again. Finding Shapes by Size – Scatter big and small shapes. Ask the pupil to find a big shape or a small shape when prompted. Finding Shapes by Colour – Provide a mix of shapes in different colours. Ask the pupil to find a red shape or a blue shape, encouraging them to match the colour to the description. Finding Shapes by Edges – Present shapes with round and straight edges. Ask the pupil to find a shape with round edges or one with straight edges, helping them distinguish between the two. Comparing Shape Sizes – Give the pupil two shapes that are slightly different in size. Encourage them to use words like bigger and smaller to describe the difference. Comparing Quantities of Shapes – Arrange two groups of shapes, one with more and one with fewer. Ask, "Which group has more shapes?" and "Which group has fewer shapes?" to reinforce quantity comparison. | Pupils respond to 'forwards' and 'backwards' They pick out described shapes from a collection They use familiar words in practical situations when they compare sizes and quantities |

| H8 | To explore 2D shapes and feel their edges with fingers. To explore 3D shapes and feel their surfaces and edges. To learn to describe shapes using words for their overall form (e.g., "round," "square," "triangular"). To learn to describe shapes based on their edges and corners (e.g., "curved," "straight," "corners," "edges"). To learn to describe shapes based on their size (e.g., "big," "small," "larger," "smaller"). To learn to describe shapes based on their thickness (e.g., "thick," "thin"). To learn to describe shapes in simple pictures or patterns. To learn to recognize and match shapes in pictures or patterns. | Shape Sorting: Provide children with a mix of shapes (e.g., circles, squares, triangles) and ask them to sort the shapes into groups based on their overall form (e.g., round, square, triangular). Edge and Corner Exploration: Give the children various shapes with different edges (e.g., a circle, square, and triangle). Encourage them to touch and feel the edges and corners. Ask them to describe them using words like "curved," "straight," "corners," and "edges." Size Comparison: Provide pairs of shapes in different sizes (e.g., big and small squares). Ask the children to compare the shapes by saying which is bigger or smaller. Encourage them to use words like "big," "small," "larger," or "smaller." Thickness Exploration: Provide shapes with varying thickness (e.g., thick and thin rectangles). Ask the children to compare the thickness of the shapes by saying which one is thicker or thinner. Height Comparison: Give children two shapes, one taller and one shorter (e.g., a tall rectangle and a short square). Ask them to identify which shape is taller and which is shorter." Length Comparison: Provide children with two shapes of different lengths (e.g., long rectangle and short rectangle). Ask them to compare the length of the shapes and describe which one is longer or shorter. Shape Picture Patterns: Provide pictures or patterns with various shapes in them (e.g., a row of circles, squares, and triangles). Ask children to describe the shapes they see using the terms from the learning intentions (e.g., "This is a round shape," "This shape is tall"). Shape Hunt in Pictures: Show children pictures or diagrams where different shapes are hidden. Ask them to identify and recognize the shapes in the picture?"). | They respond to mathematical vocabulary such as 'straight', 'circle', 'larger' to describe the shape and size of solids and flat shapes They describe shapes in simple models, pictures and patterns |
|----|---|--|---|
| Y1 | To learn to recognise and name common 2D shapes | Shape Hunt – Hide 2D shape cutouts around the room. Call out | 1. I can recognise and name |
| | (e.g., circles, squares, rectangles, triangles). | a shape name, and children find and bring it back. | common 2-D shapes [for example, |

| | * | | | |
|----|---|--|--|---|
| | To learn to recognize and name 2D shapes in the environment (e.g., square windows, circular clocks). To learn to recognise and name common 3D shapes (e.g., spheres, cubes, cuboids, pyramids). To learn to recognize and name 3D shapes in the environment (e.g., cubes, spheres, cones). To learn to compare and describe shapes using words like "longer," "shorter," "taller." To learn to compare and describe shapes using words like "heavier" and "lighter." To learn to describe position and movement using words like "whole turn," "half turn," "quarter turn." To learn to describe 2D shapes using words like "sides" and "corners." To learn to describe 3D shapes using words like "faces," "edges," and "vertices." | Shape Feely Bag – Place different 2D shapes in a bag. Children feel a shape without looking, then describe what they think it is before pulling it out, using an ALD board for support. Sorting Shapes – Provide a mix of shapes and have children sort them into groups (e.g., all circles together, all triangles together). Mystery Object Sorting – Provide real-world objects (e.g., a ball, a box, a can) and have children sort them into groups based on their 3D shape. Rolling vs. Stacking – Test which 3D shapes roll and which ones stack. Discuss how their faces and edges affect this. Use an ALD board to support discussion. Shape Printing – Dip 3D shapes into paint and press them onto paper to see the faces they leave behind. Talk about what they see using an ALD board. | rectan circles 2. I comm cuboid and sp 3. I car practic height longer double 4. I ca and r half, turns. | ngles (including squares), s and triangles]. can recognise and name non 3-D shapes [for example, ds (including cubes), pyramids oheres]. n compare, describe and solve cal problems for lengths and ts [for example, long/short, r/shorter, tall/short, e/half]. in describe position, direction movement, including whole, quarter and three-quarter |
| Υ2 | To learn to recognize and count the sides of 2D shapes. To learn to identify and count the vertices (corners) of 2D shapes. To learn to explore and recognize line symmetry in 2D shapes. To learn to sort and compare regular and irregular 2D shapes. To learn to name and describe 2D shapes based on the number of sides. To learn to recognize and count the faces of 3D shapes. To learn to identify and count the edges of 3D shapes. To learn to recognize and count the vertices (corners) of 3D shapes. To learn to describe 3D shapes based on their faces, edges, and vertices. | Count the Sides of 2D Shapes Provide children with a range of 2D shapes and ask them to count how many sides each shape has. Encourage them to use their fingers to touch and count each side as they go around the shape. This will help them develop an understanding of the sides of different shapes. Press 3D Shapes into Playdough Give children various 3D shapes like cubes, spheres, and pyramids along with playdough. Have them press the shapes into the playdough to reveal the 2D faces. Ask them to identify the 2D shapes and count how many sides they see. Count the Vertices (Corners) of 2D Shapes Provide children with several 2D shapes and ask them to count the number of vertices (corners). Encourage them to touch each corner while counting to help reinforce the concept of vertices. Explore Line Symmetry in 2D Shapes Give children 2D shapes such as squares, rectangles, and triangles. Ask them to fold the shapes to find if there is a line of | I c pr ind ar lin I c pr ind ve I c su ex ar I c su ex ar I c su ex ar | can identify and describe the roperties of 2-D shapes, cluding the number of sides and line symmetry in a vertical ne. can identify and describe the roperties of 3-D shapes, cluding the number of edges, ertices and faces. can identify 2-D shapes on the urface of 3-D shapes, [for cample, a circle on a cylinder and a triangle on a pyramid]. can compare and sort ommon 2-D and 3-D shapes and everyday objects. |

| To learn to sort and compare different 3D shapes by | symmetry. Discuss whether the two halves match perfectly after | |
|---|---|--|
| their properties. | folding and label the line of symmetry if it exists. | |
| To learn to explore how 3D shapes can be made from | Sort and Compare Regular and Irregular 2D Shapes | |
| 2D shapes (e.g., net of a cube). | Provide children with a mix of regular (e.g., squares, equilateral | |
| To learn to recognize and name 2D shapes on the | triangles) and irregular shapes (e.g., scalene triangles, irregular | |
| faces of 3D shapes. | polygons). Encourage them to sort the shapes into two groups | |
| To learn to sort 2D and 3D shapes based on their | and discuss the differences in their sides and angles. | |
| properties (e.g., sorting shapes by the number of | Name and Describe 2D Shapes Based on Number of Sides | |
| sides, faces, or vertices). | Present children with various 2D shapes and ask them to name | |
| | each shape based on the number of sides it has. Help them | |
| | describe the shapes using the terms "sides" and "corners," | |
| | reinforcing the connection between the number of sides and the | |
| | shape's name. | |
| | Count the Faces of 3D Shapes | |
| | Provide children with 3D shapes such as cubes, spheres, and | |
| | pyramids. Ask them to count how many flat faces are on each | |
| | shape. Encourage them to describe the faces, using terms like | |
| | "square," "triangle," or "circle" as they identify them. | |
| | Count the Edges of 3D Shapes | |
| | Give children various 3D shapes and ask them to count the | |
| | number of edges on each shape. Discuss the difference between | |
| | edges (where two faces meet) and faces (the flat surfaces of the | |
| | shape). | |
| | Count the Vertices of 3D Shapes | |
| | Ask children to look at different 3D shapes and count the number | |
| | of vertices (corners) on each. Encourage them to point to each | |
| | vertex as they count to help reinforce the concept of vertices in | |
| | 3D shapes. | |
| | Describe 3D Shapes by Faces, Edges, and Vertices | |
| | Provide children with different 3D shapes like cubes, pyramids, | |
| | and cylinders. Ask them to describe each shape by counting and | |
| | talking about its faces, edges, and vertices. This will help them | |
| | understand how these properties define each shape. | |
| | Sort and Compare Different 3D Shapes by Their Properties | |
| | Provide children with a variety of 3D shapes and ask them to sort | |
| | them based on properties such as the number of faces, edges, | |

| | | and vertices. Encourage them to compare the shapes and talk | | |
|----|---|---|----|----------------------------------|
| | | about how they are similar or different. | | |
| | | Explore 3D Shapes Made from 2D Shapes | | |
| | | Introduce children to nets of 3D shapes, such as the net of a cube | | |
| | | or pyramid. Ask them to explore how folding the 2D net can | | |
| | | create a 3D shape, helping them understand the relationship | | |
| | | between 2D and 3D shapes. | | |
| Y3 | To learn to create a 2D shape using a variety of | Shape Creation with Materials – Provide a variety of materials | 1. | I can measure the perimeter of |
| | materials | (straws, pipe cleaners, paper, and string) for children to create | | simple 2-D shapes |
| | To learn to draw a 2D shape using a ruler. | 2D shapes. Encourage them to explore different shapes and | 2. | I can draw 2-D shapes and make |
| | To learn to create a 3D shape using different | arrange the materials to form them. | | 3-D shapes using modelling |
| | materials | Drawing 2D Shapes with a Ruler – Give children a ruler and ask | | materials; recognise 3-D shapes |
| | To learn to use a ruler to measure the perimeter of | them to draw squares, rectangles, and triangles on paper, | | in different orientations and |
| | squares. | helping them measure and use straight lines to form the shapes. | | describe them |
| | To learn to use a ruler to measure the perimeter of | Building 3D Shapes – Use modelling clay, straws, and blocks to | 3. | I can recognise angles as a |
| | rectangles. | construct 3D shapes like cubes and pyramids. Encourage children | | property of shape or a |
| | To learn to use a ruler to measure the perimeter of | to identify the shapes they create. | | description of a turn |
| | triangles. | Perimeter of Squares – Provide square-shaped objects and a | 4. | I can identify horizontal and |
| | To learn to use a ruler to measure the perimeter of | ruler. Have children measure each side of the square and then | | vertical lines and pairs of |
| | irregular shapes. | calculate the perimeter by adding the sides together. | | perpendicular and parallel lines |
| | To learn to find right angles in the environment using | Perimeter of Rectangles – Use rectangle cut-outs and a ruler to | | |
| | a right angle tool. | measure the lengths and widths of the shapes. Help children | | |
| | To learn to find right angles in 2D shapes. | calculate the perimeter by adding up all sides. | | |
| | To learn to identify horizontal lines in the | Perimeter of Triangles – Give children triangle-shaped objects | | |
| | environment. | and a ruler to measure each side. Then, they will add the sides | | |
| | To learn to identify vertical lines in the environment. | together to find the perimeter. | | |
| | To learn to identify pairs of perpendicular lines. | Measuring Irregular Shapes – Provide irregular shapes like L or | | |
| | To learn to identify pairs of parallel lines. | zig-zag shapes. Children use a ruler to measure each side and | | |
| | To learn to recognize perpendicular and parallel lines | calculate the perimeter. | | |
| | in 2D shapes. | Finding Right Angles in the Environment – Take children on a | | |
| | | waik around the classroom or school to find right angles using a | | |
| | | right angle tool and discuss the locations they find. | | |
| | | Right Angles in 2D Shapes – Provide cut-out 2D shapes (e.g., | | |
| | | squares, rectangles) and ask children to use a right angle tool to | | |
| | | check if they have right angles at the corners. | | |

| | | Identifying Horizontal Lines – Ask children to identify horizontal | | |
|----|--|---|----|------------------------------------|
| | | lines in the classroom (such as bookshelves or tables) and trace | | |
| | | them with their fingers. | | |
| | | Identifying Vertical Lines – Have children find vertical lines in the | | |
| | | classroom (such as doors or light posts) and trace them with their | | |
| | | fingers. | | |
| | | Perpendicular Lines – Provide grid paper and ask children to | | |
| | | identify and trace pairs of perpendicular lines where they meet | | |
| | | at right angles. | | |
| | | Parallel Lines – Show children pictures of objects with parallel | | |
| | | lines (e.g., railroad tracks or bookshelves) and ask them to | | |
| | | identify and trace the parallel lines. | | |
| | | Recognizing Parallel and Perpendicular Lines in Shapes – | | |
| | | Provide shape cut-outs that feature parallel and perpendicular | | |
| | | lines (such as squares or rectangles). Have children identify and | | |
| | | label the lines they see. | | |
| | | | | |
| Y4 | To understand and learn to identify rectilinear | Rectilinear Shape Hunt - Go on a shape hunt around the | 1. | I can measure and calculate the |
| | shapes. | classroom or school grounds to find examples of rectilinear | | perimeter of a rectilinear figure |
| | To learn to measure and calculate the perimeter of | shapes. Children can take photos or draw the shapes they find, | | (including squares) in |
| | rectilinear shapes, including squares. | and then categorize them based on their properties. | | centimetres and metres. |
| | To understand how to find the area of rectilinear | Measuring Perimeter with Rulers – Provide children with cut- | 2. | I can find the area of rectilinear |
| | shapes by counting squares. | out rectilinear shapes (such as rectangles and squares) and | | shapes by counting squares. |
| | To learn to compare and classify geometric shapes | rulers. They will measure the sides of the shapes, add up the | 3. | I can compare and classify |
| | based on their properties, including quadrilaterals | lengths, and calculate the perimeter, recording their findings. | | geometric shapes, including |
| | and triangles. | Area by Counting Squares – Create grid paper with various | | quadrilaterals and triangles, |
| | To learn to identify acute and obtuse angles | rectilinear shapes drawn on it. Children will count the number of | | based on their properties and |
| | To learn to compare and order angles up to two right | squares inside each shape to find the area, discussing how the | | sizes. |
| | angles by size | grid helps in measuring. | 4. | I can identify acute and obtuse |
| | To learn to identify lines of symmetry in 2D shapes | Shape Classification Challenge – Provide a set of various 2D | | angles and compare and order |
| | presented in different orientations. | shapes (e.g., triangles, quadrilaterals, circles). Have students | | angles up to two right angles by |
| | To learn to complete a simple symmetric figure with | classify them based on properties like the number of sides, | | size. |
| | respect to a specific line of symmetry. | angles, and symmetry. They can record their classifications and | 5. | I can identify lines of symmetry |
| | To learn to describe positions on a 2D grid as | share findings with the class. | | in 2-D shapes presented in |
| | coordinates in the first quadrant. | Angle Sorting – Provide children with protractors and different | | different orientations. |
| | | shaped angles (e.g., acute, obtuse, right angles). They will | | |

| | To learn to describe movements between positions as | measure the angles and sort them based on size, identifying | 6. I can complete a simple |
|----|---|---|--|
| | translations of a given unit to the left/right and | acute and obtuse angles as well as comparing them. | symmetric figure with respect |
| | up/down. | Symmetry with Mirrors – Provide children with paper shapes | to a specific line of symmetry. |
| | To learn to plot specified points and draw sides to | and a mirror. They will place the mirror along the line of | |
| | complete a given polygon. | symmetry of different shapes, learning to identify lines of | |
| | | symmetry and how to fold shapes to create symmetrical halves. | |
| | | Symmetry Drawing – Children will be given an incomplete shape | |
| | | that has a line of symmetry. They will complete the shape by | |
| | | drawing the missing half, focusing on the symmetry of the figure | |
| | | and understanding how symmetrical shapes are created. | |
| | | Coordinate Grid Drawing – Set up a coordinate grid and give | |
| | | children instructions to plot points (e.g., (2,3), (4,5)) to form a | |
| | | specific shape or polygon. They will connect the points to | |
| | | complete the shape. | |
| | | Movement Translation Game – On a large grid, give children | |
| | | instructions to move shapes (or themselves) a certain number of | |
| | | units up/down or left/right. This will help them learn translation | |
| | | as a form of movement between positions. | |
| | | Polygon Drawing Challenge – Provide children with a set of | |
| | | coordinates to plot on a grid. Once they plot the points, they will | |
| | | connect the points to create a polygon. Children will discuss the | |
| | | shape's properties as they draw it. | |
| Y5 | To understand the concept of perimeter and apply it | Perimeter Puzzle - Provide students with cut-out pieces of | I can measure and calculate the |
| | to composite shapes. | squares, rectangles, and triangles. Ask them to arrange the | perimeter of composite rectilinear |
| | To use a ruler to measure the sides of composite | pieces into a composite shape, then measure the sides using a | shapes in centimetres and metres |
| | rectilinear shapes and calculate the total perimeter. | ruler and calculate the perimeter. | 2. I can calculate and compare the |
| | To understand the area formula (length × width) for | Ruler Measuring Challenge – Draw a composite shape on a large | area of rectangles (including |
| | rectangles and squares. | sheet of paper with various side lengths. Have students measure | squares), and including using |
| | To calculate and compare the area of different | each side with a ruler, then calculate the total perimeter by | standard units, square centimetres |
| | rectangles and squares using standard units. | adding the lengths together. | (cm ²) and square metres (m ²) and |
| | To break irregular shapes into smaller rectangles and | Area Blocks – Give students square grid paper and have them | estimate the area of irregular |
| | squares. | draw rectangles and squares. Students can count the number of | shapes |
| | To estimate the area of irregular shapes by | unit squares inside each shape to find the area and then use the | 3. I can identify 3-D shapes, |
| | approximating the area of the smaller parts. | formula (length × width) to compare. | including cubes and other cuboids, |
| | To understand how to recognize 3-D shapes such as | Area Estimation – Provide irregular shapes printed on grid paper. | from 2-D representations |
| | cubes and cuboids in their 2-D representations. | Students break them down into smaller rectangles and squares, | |

Maths Curriculum Learning Intentions- Shape

Y6

| To practice identifying 3-D shapes by looking at their | estimate the area by counting the smaller parts, and compare | 4. I know angles are measured in |
|---|--|---|
| flat, 2-D representations. | their estimates. | degrees: estimate and compare |
| To understand the different types of angles (acute, | Shape Match – Show students pictures of 3-D shapes like cubes | acute, obtuse and reflex angles |
| obtuse, reflex). | and cuboids and provide their 2-D representations (such as nets). | 5. I can draw given angles, and |
| To estimate and compare angles by visually | Have them match the 2-D representations to the correct 3-D | measure them in degrees (°) |
| identifying them. | shapes. | 6. I can identify angles at a point and |
| To understand how to use a protractor to measure | Angle Estimation – Give students protractors and pictures of | one whole turn (total 360°) |
| angles. | angles. They should estimate whether the angle is acute, obtuse, | 7. I can identify angles at a point on |
| To practice drawing given angles and measuring them | or reflex, then measure it with the protractor to check their | a straight line and 1/2 a turn (total |
| in degrees. | estimate. | 180°) |
| To understand that angles at a point add up to 360°. | Angle Drawing – Provide protractors and instructions for | 8. I can identify other multiples of |
| To identify and calculate angles at a point in a | drawing specific angles. Have students draw angles of 30°, 60°, | 90° |
| complete turn. | 90°, etc., and then measure them to check accuracy. | 9. I can use the properties of |
| To recognize that angles on a straight line add up to | Angle at a Point – Draw a circle on a whiteboard, then mark | rectangles to deduce related facts |
| 180°. | different angles around the point. Have students calculate the | and find missing lengths and angles |
| To identify and calculate angles on a straight line and | angles, making sure they total 360°, and discuss how angles add | 10. I can distinguish between |
| understand half a turn. | up to a full turn. | regular and irregular polygons |
| To understand multiples of 90° (90°, 180°, 270°, 360°). | Straight Line Angles – Draw a straight line on the board and | based on reasoning about equal |
| To identify and measure angles that are multiples of | create angles on both sides. Ask students to identify and | sides and angles |
| 90°. | calculate the angles, ensuring that the total adds up to 180°. | |
| To learn the properties of rectangles (opposite sides | 90° Multiples – Provide students with a series of angles, | |
| are equal, angles are right angles). | including 90°, 180°, 270°, and 360°. Have them identify and | |
| To use these properties to deduce missing lengths | measure the angles, discussing how each relates to a full turn. | |
| and angles in rectangle-related problems. | Rectangle Properties – Give students a rectangle with missing | |
| To understand the difference between regular and | side lengths or angles. They should use the properties of | |
| irregular polygons. | rectangles (opposite sides equal, all angles 90°) to find the | |
| To identify regular polygons (with equal sides and | missing information. | |
| angles) and irregular polygons based on their | Polygon Sorting – Provide a mix of regular and irregular polygons | |
| properties. | (e.g., squares, triangles, pentagons, hexagons). Have students | |
| | sort them into two categories and explain why they classified | |
| | them as regular or irregular based on sides and angles. | |
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