

Unit 6

Three daily lessons

North West Consultants

Year 2
Summer Term

Unit Objectives Year 3

- Relate solid shapes to pictures of them.
- Use mathematical vocabulary to describe position, direction and movement.
- Recognise right angles.
- Give instructions to move along a route.
- Visualise objects in given positions.
- Investigate a general statement.

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This Unit Plan is designed to guide your teaching.

You will need to adapt it to meet the needs of your class.

Resources needed to teach this unit:

- Activity Sheet 6.1
- OHT 6.1
- OHT 6.2

Geostrips
Multilink cubes
Whiteboards

Link Objectives

Year 1

Year 3

- Fold shapes in half, then make them into symmetrical patterns.
- Begin to relate solid shapes to pictures of them.
- Use one or more shapes to make, describe and continue repeating patterns.
- Make whole turns and half turn.
- Use everyday language to describe position, direction and movement.

- Identify and sketch lines of symmetry, recognise shapes with no lines of symmetry.
- Sketch selection of simple shape in a mirror.
- Read and begin to write the vocabulary of position, direction and movement.
- Recognise that a straight line is two right angles.
- Compare angles with a right angle, saying whether they are more or less.
- Investigate general statements about shapes and suggest examples to match them.

Planning Sheet	Day 1	Unit 1: Shape and space	Term: Summer	Year Group: 32
Oral and Mental		Main Teaching		Plenary
Objectives and Vocabulary	Teaching Activities	Objectives and Vocabulary	Teaching Activities	Teaching Activities/Focus Questions
<p>Use mathematical vocabulary to describe position, direction and movement.</p> <p>Vocabulary Clockwise Anti-clockwise Inwards Outwards In front Behind</p>	<p>On playground:</p> <p>Stand in a circle. Give instructions such as</p> <p>Walk clockwise Anti-clockwise Face inwards Face outwards</p> <p>If you have fair hair go and stand behind someone.</p> <p>If you have brown eyes stand in front of someone. Etc.</p>	<p>Relate solid shapes to pictures of them.</p> <p>Vocabulary Next to Beside Next to</p> <p>Resources A.S. 6.1 Multilink cubes</p>	<p>Children have cubes in pairs. Using multilink make a single layer shape using 3 cubes (in the shape of a right angle).</p> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;">Q: Can you make a shape the same as this?</div> <p>Discuss how they were made. Now join 3 cubes in a line.</p> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;">Q: Can you make this shape?</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;">How many did you move?</div> <p>Give the children A.S. 6.1 and ask them to make each shape using 4 cubes.</p> <p>Bring the children together after a while and discuss the shapes. Pupils to explain how they made them.</p> <div style="border: 1px solid black; padding: 5px; margin-top: 20px;">N.B. Learning and Teaching Using ICT has a useful video clip which provides an alternative lesson using whiteboards.</div>	<p>Plenary</p> <p>Use O.H.T.6.1</p> <p>Look at one of the shapes.</p> <p>Ask the children what to make.</p> <p>Shape 1</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;">Q: How many cubes? How is this different to the ones we made earlier?</div> <p>Repeat with nos. 2 and 3.</p> <div style="border: 1px solid black; padding: 5px; margin-top: 20px;">By the end of the lesson the children will be able to make 3D shapes by looking at pictures of them.</div>

Planning Sheet	Day 2	Unit 1: Counting to 100		Term: Autumn	Year Group: 3
Oral and Mental		Main Teaching			Plenary
Objectives and Vocabulary	Teaching Activities	Objectives and Vocabulary	Teaching Activities	Teaching Activities/Focus Questions	
<p>Use mathematical vocabulary to describe position direction and movement.</p> <p>Vocabulary Top Bottom Right Left Top right Bottom left Top left Bottom right</p>	<p>Ask the children to imagine a 2 by 2 grid of squares.</p> <div data-bbox="344 402 653 483" style="border: 1px solid black; padding: 2px;"> <p>Q: How many small squares are there?</p> </div> <ol style="list-style-type: none"> 1. Put a circle in the top right square. 2. Put a cross in the bottom left square. 3. Put a cross in the bottom right square. <div data-bbox="344 678 653 760" style="border: 1px solid black; padding: 2px;"> <p>Q: Which square is still empty?</p> </div> <p>Tell the children to draw what they imagined on their whiteboards.</p> <p>Discuss - take feedback.</p>	<p>Recognise right angles.</p> <p>Vocabulary Position Right angle Quarter turn Corner</p> <p>Resources Geostrips</p>	<p>Using geostrips show the children how angles are made where two lines/strips meet.</p> <p>Demonstrate various angles less than and greater than a right angle.</p> <p>Now introduce the right angle as a special angle.</p> <p>Show the children how to make a right angle by folding any piece of paper anywhere and then folding again along the fold.</p> <p>Demonstrate how the right angle fits exactly into the corner of a whiteboard, a book etc.</p> <p>Ask the children to look around the room for examples of right angles using their own to check.</p>	<p>Plenary</p> <p>Take feedback.</p> <div data-bbox="1724 451 2018 532" style="border: 1px solid black; padding: 2px;"> <p>Q: Did anyone notice where the walls meet?</p> </div> <div data-bbox="1724 553 2018 667" style="border: 1px solid black; padding: 2px;"> <p>Q: Did anyone notice that there is a right angle where the floor and walls meet?</p> </div> <div data-bbox="1724 699 2018 813" style="border: 1px solid black; padding: 2px;"> <p>Q: Is there always a right angle where the floor meets the wall?</p> </div> <div data-bbox="1724 846 2018 927" style="border: 1px solid black; padding: 2px;"> <p>Q: Why do you think this is so?</p> </div> <div data-bbox="1724 1057 2018 1325" style="border: 1px solid black; padding: 2px;"> <p>By the end of the lesson the children will be able to find examples of right angles in the environment.</p> </div>	

Planning Sheet	Day 3	Unit 1: Counting to 100		Term: Autumn	Year Group: 3
Oral and Mental		Main Teaching			Plenary
Objectives and Vocabulary	Teaching Activities	Objectives and Vocabulary	Teaching Activities	Teaching Activities/Focus Questions	
<p>Visualise objects in given position.</p>	<p>Show the children a cone standing on a surface.</p> <div data-bbox="340 453 655 540" style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <p>Q: What would you see from underneath?</p> </div> <p>Repeat with cuboids, pyramids, cylinder, cube. sphere.</p> <div data-bbox="340 651 655 738" style="border: 1px solid black; padding: 5px;"> <p>Q: What would you see from above?</p> </div>	<p>Give instructions to move along a route.</p> <p>Vocabulary Right angle Straight line Clockwise Anti-clockwise Half turn Quarter turn Right Left</p> <p>Resources O.H.T. 6.1</p>	<p>In hall / playground / next to desk.</p> <p>Ask children to face you. Call out instructions such as:</p> <p>“Half a turn clockwise.” What did you see on the way? “A quarter turn anticlockwise.” Where are you facing now?</p> <p>Return to seats.</p> <p>Use O.H.T. 6:2</p> <p>Ask the children to describe a route from start to finish using things like “Up one square, turn clockwise through one right angle. etc.”</p> <p>Establish one route. Agree some instructions e.g. forward 1; turn clockwise; through one right angle; forward one etc.”</p>	<p>Plenary</p> <p>Ask a child to read out their instructions.</p> <p>Ask questions such as – Do we turn clockwise or anti-clockwise here.</p> <div data-bbox="1749 1010 2018 1305" style="border: 1px solid black; padding: 10px; margin-top: 20px;"> <p>By the end of the lesson the children should be able to give instructions of how to follow a route.</p> </div>	

Planning Sheet		Unit 1: Counting to 100	Term: Autumn	Year Group: 3
Oral and Mental		Main Teaching		Plenary
Objectives and Vocabulary	Teaching Activities	Objectives and Vocabulary	Teaching Activities	Teaching Activities/Focus Questions
			<p>Ask the children to find other routes, working in pairs Using copies of OHT 6.2.</p> <p>Extension – children can create their own grids on squared paper..</p>	<div data-bbox="1724 1044 2011 1339" style="border: 1px solid black; height: 180px; width: 137px; margin: 0 auto;"></div>

