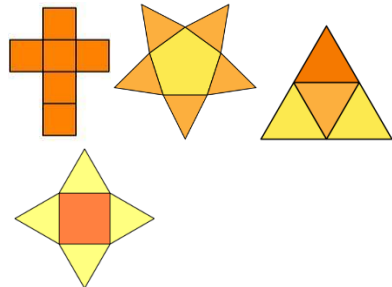
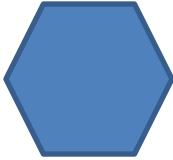

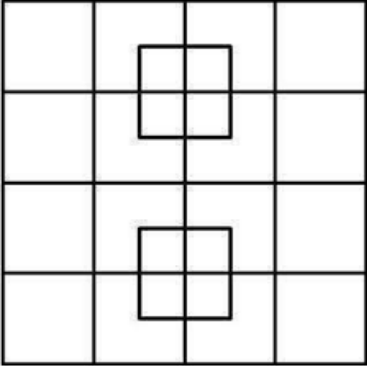


	National Curriculum Statement	All students		
		Fluency	Reasoning	Problem Solving
Geometry	Identify 2D shapes on the surface of 3D shapes, [for example, a circle on a cylinder and a triangle on a pyramid].	<ul style="list-style-type: none"> Which 2D shape makes 2 of the faces on a cylinder? Fill in the missing number: A square based pyramid has faces made from triangles. Name a 3D shape that has a rectangle as one of their faces? 	<ul style="list-style-type: none"> I am thinking of a 3D shape. The faces are made up of triangles. What shape am I thinking of? Saira is drawing all the 2D shapes she finds on 3D shapes. She draws 8 squares for a cube. Is she right? Prove it! 	<ul style="list-style-type: none"> Use the straws provided to create 3D shapes using the correct properties. What shapes do you notice on the faces? Abigail is folding paper to make a 3D shape. Work out the shapes she has made by looking at her folded papers. <div style="text-align: center;">  </div>

	National Curriculum Statement	All students		
		Fluency	Reasoning	Problem Solving
Geometry	<p>Identify and describe the properties of 2D shapes, including the number of sides and line symmetry in a vertical line.</p>	<ul style="list-style-type: none"> How many sides does an octagon have? Count the sides of this shape and then name it.  <ul style="list-style-type: none"> How many corners does a square have? 	<ul style="list-style-type: none"> Caroline is finding the properties of a shape. She thinks it is a square because it has four sides. Explain why she could be wrong. Look at the line of symmetry in the shape below. Do you agree it is a line of symmetry? Explain why.  <ul style="list-style-type: none"> I am thinking of a shape with more than two lines of symmetry. Prove which shape I am thinking of by using a pictorial image. Is that the only shape it could be? 	<ul style="list-style-type: none"> How many squares can you see in this picture?  <ul style="list-style-type: none"> Draw a shape for a friend. How many lines of symmetry can they find? Can you now draw a shape with more lines of symmetry?

	National Curriculum Statement	All students											
		Fluency	Reasoning	Problem Solving									
Geometry	Compare and sort common 2D and 3D shapes and everyday objects.	<ul style="list-style-type: none"> Find 3 different 3D shapes in the classroom. Sort the shapes on your tables into 2D and 3D. What is my shape? It is used in a game with two teams. It has only 1 face. 	<ul style="list-style-type: none"> What's the same about a cube and cuboid? What's different? Using the shapes on your table, sort them into different groups. Explain why you have organised them this way. Find a 2D shape and a 3D shape in the classroom – could these objects have been designed better using a different shape e.g. would a clock look better as a square? 	<ul style="list-style-type: none"> Shape hunt! Look around the school and playground. What shapes can you find? Look at the diagram below. <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th></th> <th>3D</th> <th>Not 3D</th> </tr> </thead> <tbody> <tr> <td>Has 1 or more curved sides/faces</td> <td></td> <td></td> </tr> <tr> <td>No curved sides/faces</td> <td></td> <td></td> </tr> </tbody> </table> <p style="text-align: center;">Sort the shapes on your table into this diagram.</p>		3D	Not 3D	Has 1 or more curved sides/faces			No curved sides/faces		
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	National Curriculum Statement	All students		
		Fluency	Reasoning	Problem Solving
Geometry	Identify and describe the properties of 3D shapes, including the number of edges, vertices and faces.	<ul style="list-style-type: none"> How many faces does a cube have? What is my shape? I have 5 faces, 8 edges and 5 vertices. What is the name given to 2 faces that meet? 	<ul style="list-style-type: none"> Katie is trying to build a tower with 3D shapes. When she uses one shape they keep rolling off each other. What shape do you think she is using and why? Class 2 are using straws to make 3D shapes. Each child is given 12 straws to make a cuboid. Is this the right amount? Explain how you know. (Give children straws to use). Jack says, "All 3D shapes have at least 1 vertex." Do you agree? Convince me. 	<ul style="list-style-type: none"> Look at the shapes on your table. Can you create a table/diagram to organise these shapes? How many different ways could they be sorted? Put different shapes into a bag. In pairs, take turns to feel a shape, without looking, and describe it to your partner. Can they guess it? Record the clues you gave. Three children have a 3D shape each. They are all different. They each give a fact about their shape. Aidan says, "My shape has 1 vertex." Anthony says, "My shape has less than 9 faces." Bevan says, "My shape has a triangle on one of their faces." List all the shapes they could each possibly have.