

Let's Explore 3-D Shapes: Maths : Year 2 : Spring Term

	Learning Objective	Overview	Assessment Questions	Resources
Lesson 1	To identify the edges, vertices and faces of 3-D shapes.	Children to describe the differences between 2-D shapes, 3-D shapes and polyhedrons. They will learn to use the language vertices and vertex instead of corners and corner.	<ul style="list-style-type: none"> Do children know what vertex/vertices mean? Can children count the faces/vertices/edges of shapes? Can children explain differences between shapes in terms of the numbers of faces/vertices/edges? 	<ul style="list-style-type: none"> Slides Challenge Cards 1A/1B Lots of 3-D shapes Secret Shapes 1A A thin sheet/tablecloth
Lesson 2	To identify, describe and make 3-D shapes.	Children to listen to descriptions of 3-D shapes and match the correct shape to them. They will be challenged to write the correct number of faces, vertices and edges of the shapes.	<ul style="list-style-type: none"> Can children match descriptions to corresponding 3-D shapes? Can children describe 3-D shapes according to the number of faces/vertices/edges? Can children use information about the properties of shapes to help when making them? 	<ul style="list-style-type: none"> Slides Challenge Cards 2A/2B/2C Lots of 3-D shapes 3-D shape-making resources Photo Sheet
Lesson 3	To identify 2-D shapes on the surface of 3-D shapes.	Children to describe the differences between 3-D shapes using mathematical words and phrases. They will be challenged to describe and match shapes by playing the game Mastermind.	<ul style="list-style-type: none"> Do children know what polyhedrons are? Can children identify the shapes of faces of common 3-D shapes? Can children draw the faces of common 3-D shapes? 	<ul style="list-style-type: none"> Slides Mastermind 3A (slides) Mastermind Screen 3A Worksheet 3A/3B Lots of 3-D shapes Play dough (FSD? only)
Lesson 4	To describe 3-D shapes according to the shapes and arrangement of their faces.	Children to learn about opposite faces of 3-D shapes. They will be challenged to answer true or false statements about 3-D shapes.	<ul style="list-style-type: none"> Do children know what 'opposite faces' are? Do children know that some common 3-D shapes have identical opposite faces? Can children think of rules about the faces of common 3-D shapes? 	<ul style="list-style-type: none"> Slides Worksheet 4A/4B/4C Lots of 3-D shapes True/False Cards 4A Dowelling/balsa wood, junior hacksaws, bench hooks (FSD? activity only)
Lesson 5	To compare and sort common 3-D shapes and objects.	Children to match similarities of everyday objects with 3-D shapes. They will be challenged to find, draw and label objects that are similar to 3-D shapes.	<ul style="list-style-type: none"> Can children identify everyday objects which are the same or similar to common geometric 3-D shapes? Can children identify everyday objects which are comprised of several common geometric 3-D shapes? Can children explain why some everyday objects are similar to, but not exactly like common geometric 3-D shapes? 	<ul style="list-style-type: none"> Slides Worksheet 5A/5B/5C Teacher's Notes 5A 6-sided dice, hoops, mini-whiteboards (FSD? activity only)