Theme: Drawing	Cross Curricular Links: Maths – Recognise and name comr	non 2D and 3D shapes		
Key vocabulary	Prior learning	Next steps		
 2D shape /3D shape Abstract cross-hatch Diagonal Horizontal 	 Abstract materials. cross-hatch Diagonal Number of the second se			
Key assessment questions Can the children:				
 look carefully at an object to ide control a pen/pencil to create di use a range of drawing tools to o layer different materials to expension 	fferent types of lines. create different marks.			
Knowledge to be taught		Useful pictures / diagrams / weblinks		
That a continuous line drawing is a drawi Properties of drawing materials eg; which blend. Hold and use drawing tools in different w Create marks by responding to different s Look carefully to make an observational of Complete a continuous line drawing.	https://www.kapowprimary.com/subjects/art- design/key-stage-1/year-1/year-1-drawing-make- your-mark/			
Definitions / technical vocabulary for tea	Definitions / technical vocabulary for teachers.			
Optical art - Art that uses shape, colour they are moving. Abstract - Art where the subject doesn't Medium - The material used to create art				

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Pre- requisite		Understanding	Understanding	. Understanding	Understanding	
knowledge		about different	about different	about different	about different	
required before the		types of line.	types of line.	types of line.	types of line.	
lesson.						
		Understanding of	Understanding of	Understanding of	Understanding of	
		and experience	and experience	and experience	and experience with	
		with different	with different	with different	different medias	
		medias	medias	medias		
Key learning focus	To know how to	To explore line and	To draw with	To develop an	To apply an	
for the lesson (s)	create different	mark making to draw water.	different media	understanding of	understanding of	
	types of lines.	uraw water.		mark making.	drawing materials and mark making to	
					draw from	
					observation.	
Potential	Could display the	May need to be	May need help to	May need help to	Should encourage	
amendments for	image with the	encouraged to use	ensure that the	observe carefully	them to use a range	
SEND	names of the	a range of	colours and	and to identify	of materials and	
	different types of	materials and draw	mediums they use	marks to use.	support to focus on	
	lines as well as what	using big, wider	vary.		the key shapes they	
	they look like; could	arm movements.			can see within their	
	give children only a few lengths of string				object.	
	and encourage them				-	
	to stand up as they					
	are working as they					
	may find it easier.					

	Year 1 Autumn 2 DT	
Theme: Mechanisms – making a moving story book.		
Key vocabulary	Prior learning	Next steps
Sliders mechanism Adapt design criteria input Model template Assemble test	Can use scissors to cut out. Know how to use glue to stick. Know how to use both scissors and glue safely.	https://www.kapowprimary.com/subjects/design- technology/key-stage-1/year-2/mechanisms- fairground-wheel/
 Can I evaluate my product again Can I consider what I have learn Knowledge to be taught 	and cut my moving parts and make sliders for my moving pa	urts? Useful pictures / diagrams / weblinks
movement the mechanism will make. Clearly label drawings to show which parts of To know that a mechanism is the parts of To know that a slider mechanism moves To know that a slider mechanism has a s To know that bridges and guides are bits slider.	https://www.kapowprimary.com/subjects/design- technology/key-stage-1/year-1/mechanisms- making-a-moving-story-book/lesson-1-exploring- sliders-and-movement/	
Definitions / technical vocabulary for tea Sliders - Something that can move from		
Mechanisms - A system of parts working		

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Pre- requisite knowledge required before the lesson.	Scissor safety understanding	Scissor safety understanding	Scissor safety understanding	Scissor safety understanding		
Key learning focus for the lesson (s)	To explore making mechanisms.	To design a moving storybook.	To construct a moving picture.	To evaluate my finished product.		
Potential amendments for SEND	Will need further direction to insert the car into the cut grooves. They may need to refer back to the demonstration model.	Could work together as a group with the teacher/TA to make a shared moving picture. mechanism) to complete on the task giving them greater focus on one or two aspects.	Will need support planning what they will do first and may need their steps recorded for them to tick off.	May need prompts to help them identify what areas of their design should be adapted.		

	Year 2 Autumn 1 ART	
Theme:	Cross Curricular Links:	
Drawing	Maths Recognise and name common 2-D and 3-D shapes.	
Key vocabulary	Prior learning	Next steps
Concertina	How to hold and use drawing tools in different ways.	https://www.kapowprimary.com/subjects/art-
 Expression Hatching Stippling storyboard 	How mark making can be used to replicate texture. What an observational drawing is.	design/lower-key-stage-2/year-3/year-3-drawing/
	Drawing techniques that help to draw objects from observation (such as seeing shapes).	
Key assessment questions		
Experiment in sketchbooks, using draw Further demonstrate increased control Make choices about which materials ar Develop observational skills to look clo pattern, texture, line, shape, form and	ange of stimuli, exploring different media and techniques. ving to record ideas. I with a greater range of media. nd techniques to use to create an effect. sely and aim to reflect some of the formal elements of art (colour, space) in their work.	Useful pictures / diagrams / weblinks https://www.kapowprimary.com/subjects/art- design/key-stage-1/year-2/year-2-drawing/lesson- 1-charcoal-mark-making/
Talk about art they have seen using sor		
Definitions / technical vocabulary for te	eachers.	

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Pre- requisite	Knowledge of	Knowledge of	Knowledge of	Knowledge of	Knowledge of	
knowledge	different line styles.	different line styles.	different line styles.	different line styles.	different line styles.	
required before	Knowledge and	Knowledge and	Knowledge and	Knowledge and	Knowledge and	
the lesson.	experience of	experience of	experience of	experience of	experience of	
the lesson.	observational	observational	observational	observational	observational	
	drawing.	drawing.	drawing.	drawing.	drawing.	
	Knowledge of	Knowledge of	Knowledge of	Knowledge of shapes.	Knowledge of shapes.	
	shapes.	shapes.	shapes. Experience	Experience of books	Experience of books	
	Experience of books	Experience of books	of books and stories.	and stories.	and stories.	
	and stories.	and stories.	Experience of	Experience of	Experience of drawing	
	Experience of	Experience of	drawing faces.	drawing faces.	faces.	
	drawing faces.	drawing faces.	5	U U		
Key learning focus	To develop a range of	To explore and	To develop	To understand how	To develop	
for the lesson (s)	mark making	experiment with	observational	to apply expressions	illustrations to tell a	
	techniques.	mark-making to	drawing.	to illustrate a	story.	
		create textures.	0	character.	,	
Potential	Can be shown how to	N/A	Should support children	May benefit from	Will benefit from having	
amendments for	break the charcoal and		by drawing the basic	having printed images	the concertina books	
SEND	shape the end to make		shapes with them and	or storyboards to	prepared for them, or	
SEND	different types of		then allow them to	support creating poses;	having an adult work	
	marks; may benefit		focus on adding the	could provide a drawing	alongside to make one	
	from a demonstration		details and textures;	of a simple stick figure	each, step by step;	
	of how to hold the		should use a	and ask them to build	should use their	
	charcoal in different		photograph of a toy (or	on it with shape if the	storyboards to help	
	ways and to move their hand in different ways		of their own) and take a	children find drawing a	children plan and know what they want to draw	
	to vary their marks;		light photocopy of this; can work on top of the	person hard; may provide some images of	in their concertina	
	may need words read		photocopy so that they	characters to inspire	books.	
	aloud or explained to		can focus on observing	them with ideas for	500N3.	
	them; could		and drawing the	clothes, expressions		
	alternatively, record an		texture and details with	and styles; could give		
	adult saying the words		mark making.	them time with an adult		
	on a talking tin or tablet		_	to talk about their ideas		
	device.			aloud.		

	Year 2 Autumn 2 DT						
Theme: Mechanisms – Fairground wheel	Cross Curricular Links: Mathematics - Identify and describe the properties of 2-D shapes, including the number of sides, and line of symmetry in a vertical line. Science - Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic,						
	glass, brick, rock, paper and cardboard for particular uses.						
Key vocabulary	Prior learning	Next steps					
Ferris wheel pods axle axle holder frame mechanism Key assessment questions I can build a stable structure. I can test elements of my design. I can adapt my design as necessa I can make the wheel rotate.							
I can make the wheel rotate. Knowledge to be taught		Useful pictures / diagrams / weblinks					
Design and label a wheel.	heel. /.	https://www.kapowprimary.com/subjects/design- technology/key-stage-1/year-2/mechanisms- fairground-wheel/lesson-1-design-a-ferris-wheel/					
Definitions / technical vocabulary for tea Mechanism - A set of parts of a machine							

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Pre- requisite knowledge required before the lesson.	Experience designing.	N/A	N/A	Knowledge of how to evaluate work.		
Key learning focus for the lesson (s)	To explore wheel mechanisms and design a Ferris wheel.	To select appropriate materials.	To build and test a moving wheel.	To make and evaluate a structure with a rotating wheel.		
Potential amendments for SEND	Could benefit from having cards that say 'wheel' and 'axle' as well as a diagram so they can match the label to the correct part	Could benefit from discussing ideas with a partner; could have someone scribe their thoughts for them on the design sheet	Should talk through their plans before they start; could need support with the motor skills required for assembly.	May need support measuring and cutting materials.		

	Year 2 Spring 1 ART	
Theme: Painting	Cross Curricular Links: N/A	
Key vocabulary	Prior learning	Next steps
collage detail mixing	Before starting this unit, you might want to check that children can recall:	https://www.kapowprimary.com/subjects/art- design/lower-key-stage-2/year-3/year-3-painting/
overlap primary colour	That the three primary colours are red, yellow and blue.	
secondary colour surface	That the three secondary colours are green, orange and purple.	
texture	How to mix primary colours to make secondary colours.	
	How to make different shades of one secondary colour.	
Key assessment questions		
Lesson 1 I can name the primary and secondary colour I can describe what happens when I mix two s I can make choices about how to make colour	secondary colours.	
Lesson 2		
I can describe colours and textures. I can choose painting tools to recreate a textu I can mix a range of secondary colours.	ıre.	

Lesson 3

I can explain the word 'collage'. I can choose materials and tools to make textures with paint. I can mix colours to match something I see.

Lesson 4

I can choose collage materials based on colour and texture. I can describe how my choices match my ideas. I can try out different arrangements of materials, including overlapping.

Lesson 5

I can say what I like or don't like about artwork. I can talk about how I could improve my work. I can choose which materials and tools to use.

Knowledge to be taught

Useful pictures / diagrams / weblinks

Name the primary and secondary colours.	https://www.kapowprimary.com/subjects/art-
Talk about the colour changes they notice and make predictions about what will happen when two	design/key-stage-1/year-2/year-2-
colours mix.	painting/lucy lesson-1-colour-magic/
Describe the colours and textures they see.	
Try different tools to recreate a texture and decide which tool works best.	
Show they can identify different textures in a collaged artwork.	
Apply their knowledge of colour mixing to match colours effectively.	
Choose collage materials based on colour and texture.	
Talk about their ideas for an overall collage.	
Try different arrangements of materials, including overlapping shapes.	
Give likes and dislikes about their work and others'.	
Describe ideas for developing their collages.	
Choose materials and tools after trying them out.	
Generating ideas:	
Begin to generate ideas from a wider range of stimuli, exploring different media and techniques.	
Making skills:	
Further demonstrate increased control with a greater range of media.	
Make choices about which materials and techniques to use to create an effect.	
Use hands and tools with confidence when cutting, shaping and joining paper, card and malleable	
materials.	
Develop observational skills to look closely and aim to reflect some of the formal elements of art (colour, pattern, texture, line, shape, form and space) in their work.	
Knowledge of artists:	
Talk about art they have seen using some appropriate subject vocabulary. Apply their own understanding of art materials learnt from artist work to begin purposefully choosing	
materials for a specific effect.	
Evaluating and analysing:	
Explain their ideas and opinions about their own and others' artwork, beginning to recognise the	
stories and messages within in and showing an understanding of why they may have made it.	
Begin to talk about how they could improve their own work.	
Talk about how art is made.	

Key knowledge	
Formal elements:	
Colour: Different amounts of paint and water can be used to mix hues of	
Colour: Different amounts of paint and water can be used to mix hues of secondary colours.	
Colour: Colours can be mixed to 'match' real life objects or to create things from your imagination.	
Form: That 'composition' means how things are arranged on the page.	
Shape: Collage materials can be shaped to represent shapes in an image.	
Pattern: Patterns can be used to add detail to an artwork.	
Texture: Collage materials can be chosen to represent real-life textures.	
Texture: Collage materials can be overlapped and overlaid to add texture.	
Texture: Drawing techniques such as hatching, scribbling, stippling, and blending can create surface	
texture.	
Texture: Painting tools can create varied textures in paint.	
Tone: Different amounts of paint and water can be used to mix hues of secondary colours.	
Making skills:	
How to mix a variety of shades of a secondary colour.	
How to make choices about amounts of paint to use when mixing a particular colour.	
How to match colours seen around them.	
How to create texture using different painting tools. How to make textured paper to use in a collage.	
How to choose and shape collage materials eg cutting, tearing.	
How to compose a collage, arranging and overlapping pieces for contrast and effect.	
How to add painted detail to a collage to enhance/improve it.	
Knowledge of artists:	
Some artists create art to make people aware of good and bad things happening in the world around	
them.	
Art can be figurative or abstract.	
Artists try out different combinations of collage materials to create the effect they want.	
Evaluating and analysing:	
People use art to tell stories.	
People make art about things that are important to them.	
People make art to share their feelings.	
People make art to help others understand something.	
Definitions / technical vocabulary for teachers.	

Collage - Arranging diff	erent materials together	and sticking them to a su	urface.							
	Overlap - To partly cover something. Medium term plan – Year 2 – Spring 1 – art									
Medium term plan –	Vear 2 – Spring 1 – art Week 1	Week 2	Week 3	Week 4	Week 5	Week 6				
Pre- requisite knowledge required before the lesson.	Knowledge of primary and secondary colours.	Knowledge of primary and secondary colours.	Knowledge of primary and secondary colours.	Knowledge of primary and secondary colours.	Knowledge of primary and secondary colours.					
Key learning focus for the lesson (s)	To develop knowledge of colour mixing.	To know how texture can be created with paint.	To use paint to explore texture and pattern.	To compose a collage, choosing and arranging materials for effect.	To evaluate and improve artwork.					
Potential amendments for SEND	Some pupils may need prompts for how to adapt secondary colours, for example,	Some pupils may not want to handle objects and may find it easier to recreate colour and texture from a picture	May find this task too open-ended and need to use specific pictures. Some children may work best in a small	Some pupils may find the decision making element of the task more tricky; they could work with a partner and take turns choosing and	Some pupils may need help getting started, including suggestions for what techniques to try out and how to adapt their collages. Support children by					

		Some children may need support with colour mixing initially.	group with an adult leading the activity.	sticking to build confidence.	their intentions as they work. Working with a partner may be
					tricky for some if they have conflicting ideas.
Link to key drivers					
			Year 2 Spring 2 DT		
Theme:		Cross Curricular Links:			
Key vocabulary		Prior learning			Next steps
Key assessment ques	stions				
Knowledge to be tau	ght				Useful pictures / diagrams / weblinks

Definitions / technica	al vocabulary for teach	ners.				
Medium term plan –	Year 2 – Spring 2 – DT					
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Pre- requisite knowledge required before the lesson.						
Key learning focus for the lesson (s)						

Potential								
amendments for								
SEND								
Link to key drivers								
		•	Year 2 Summer 1 ART	Ē.				
Theme:		Cross Curricular Links:						
Sculpture		DT						
		Generate, develop, model and communicate their ideas through talking, drawing and templates.						
Key vocabulary		Prior learning			Next step	DS		
casting		Before starting this unit, you might want to check that children			https://www.kapowprimary.com/subjects/art-			
		can recall:			design/lower-key-stage-2/year-3/year-3-3d-and-			
ceramic					sculpture/			
		That when something is three-dimensional it has form and is			scupture	<u>-1</u>		
cut		not flat.						
Cut								
detail		That three-dimensional is often referred to as 3D.						
uetan				-				

flatten	That they can explain the difference between something that is	
	2D and 3D. This could include suggesting ways to change a flat	
glaze	(2D) piece of paper into something 3D either through	
	discussion or as a practical task with scrap paper.	
impressing		
in pressing	That sculpture is a 3D art form.	
in relief		
Intellet		
join		
negative space		
pinch pot		
plaster		
plaster		
roll		
score		
sculptor		
sculpture		
shape		
Shape		
slip		
smooth		
surface		
three dimensional		

thumb pot						
Key assessment questions		•				
Lesson 1						
I can flatten clay to make a smooth s	urface.					
I can shape clay using my hands.						
 I can make different marks in clay by pressing into it. I can share clay to make a model 						
 I can shape clay to make a model. 						
Lesson 2						
• I can use the pinching technique to s	hape a pot.					
 I can use my fingers and thumbs to n 						
I can join clay to help decorate my po	ot.					
Lesson 3						
• I can describe my ideas about the wo	ork of artist Rachel Whiteread.					
I can roll a smooth clay tile.						
I can create a pattern by pressing int	o and joining pieces onto my tile.					
Lesson 4						
• I can draw a house that will be made	into a clay tile.					
I can decide how to create features I	ike a door, windows and the roof in clay.					
• I can label my drawing accurately.						
Lesson 5						
 I can use my design to guide my clay 	work.					
 I can use both pressing in and joining 	g clay techniques on my tile.					
 I can evaluate my finished tile and sa 	y how it reflects my design.					
Knowledge to be taught		Useful pictures / diagrams / weblinks				
Knowledge to be tadgit		oserui pictures / ulagranis / weblinks				

Flatten and smooth their clay, rolling shapes successfully and making a range of marks in their clay.	https://www.kapowprimary.com/subjects/art-
Make a basic pinch pot and join at least one clay shape onto the side using the scoring and slipping technique.	design/key-stage-1/year-2/year-2-3d-and-sculpture-
Roll a smooth tile surface.	clay/lesson-1-exploring-clay/
Join clay shapes and make marks in the tile surface to create a pattern.	
Draw a house design and plan how to create the key features in clay.	
Create a clay house tile that has recognisable features made by both impressing objects into the surface and	
by joining simple shapes.	
by joining simple shapes.	
Generating ideas:	
Begin to generate ideas from a wider range of stimuli, exploring different media and techniques.	
Using sketchbooks:	
Experiment in sketchbooks, using drawing to record ideas.	
Use sketchbooks to help make decisions about what to try out next.	
Making skills:	
Further demonstrate increased control with a greater range of media.	
Use hands and tools with confidence when cutting, shaping and joining paper, card and malleable materials.	
Knowledge of artists:	
Talk about art they have seen using some appropriate subject vocabulary.	
Create and critique both figurative and abstract art, recognising some of the techniques used.	
create and thirdue both right ative and abstract art, recognising some of the techniques used.	
Evaluating and analysing:	
Explain their ideas and opinions about their own and others' artwork, beginning to recognise the stories and	
messages within in and showing an understanding of why they may have made it.	
Begin to talk about how they could improve their own work.	
Talk about how art is made.	
Formal elements:	
Form: Pieces of clay can be joined using the 'scratch and slip' technique.	
Form: A clay surface can be decorated by pressing into it or by joining pieces on.	
Shape: Patterns can be made using shapes.	
Making skills:	
How to smooth and flatten clay.	
How to roll clay into a cylinder or ball.	

How to make different surface marks in clay.	
How to make a clay pinch pot.	
How to mix clay slip using clay and water.	
How to join two clay pieces using slip.	
How to make a relief clay sculpture.	
How to use hands in different ways as a tool to manipulate clay.	
How to use clay tools to score clay.	
Knowledge of artists:	
Art can be figurative or abstract.	
Artists can use the same material (felt) to make 2D or 3D artworks.	
Evaluating and analysing:	
People use art to tell stories.	
People make art about things that are important to them.	
People make art to share their feelings.	
People make art to explore an idea in different ways.	
Definitions / technical vocabulary for teachers.	
Medium term plan – Year 2 – Summer 1 – ART	

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Pre- requisite knowledge required	Experience of designing.					
before the lesson.	Knowledge of clay tools.					
Key learning focus for the lesson (s)	To use my hands as a tool to shape clay.	To shape a pinch pot and join clay shapes as decoration.	To use impressing and joining techniques to decorate a clay tile.	To use drawing to plan the features of a 3D model.	To make a 3D clay tile from a drawn design.	
Potential amendments for	May need additional modelling of the key	Could be seated so that they can watch	May need to cut around the card tile	Could draw their design and describe	May need to use the card templates to cut	
SEND	modeling of the key	the video as they	template, or have an	to an adult how they	a tile shape; may need	

	skills as the lesson progresses.	work; could decorate their pot with just one shape, perhaps a circle rolled and flattened with a face added using tools pressed in; may need adult support to score the surface of the shape before attaching it.	adult do this for them; may need adult support to remember how to score and slip shapes to stick them to the tile.	plan to make it rather than labelling.	support to choose tools and objects to make the house features; may need reminding about joining techniques.		
Link to key drivers							
	·		Year 3 Summer 2 DT				
Theme:		Cross Curricular Links:					
Key vocabulary		Prior learning			Next steps		
Key assessment questions							
I							

Knowledge to be tau	ght				Useful	pictures / diagrams / w	veblinks
Definitions / technica	al vocabulary for teach	ers.					
Medium term plan –	Year * – Summer 2 – S	SUBJECT					
	Week 1	Week 2	Week 3	Week 4		Week 5	Week 6
Pre- requisite knowledge required before the lesson.							

Key learning focus for the lesson (s)			
Potential			
amendments for SEND			
Link to key drivers			

	Year 4 Autumn 2 DT						
Theme: Electrical components –							
torches.							
Key vocabulary	Prior learning	Next steps					
circuit diagram, insulator, series circuit, component, design criteria, LED, target audience,	Before starting this unit check that children know Electrical systems are a group of parts (components) that work together to transport electricity around a circuit. Kettles, remote controls, etc are electrical products.	Identify devices which use electricity. Name and know the function of components. Know the symbols used for circuit diagrams. Know that conductors are materials which allow electricity to flow and insulators prevent the flow of electricity. Predict if a lamp will light based on a circuit diagram.					
Key assessment questions							
 use appropriate equipment to cut a assemble a torch according to their assemble a torch which satisfies th test their torch to evaluate its succ 	r design criteria? e success criteria?						
Knowledge to be taught		Useful pictures / diagrams / weblinks					
 Identify electrical products and exp Help to make a working switch. Identify the features of a torch and Describe what makes a torch succe Create suitable designs that fit the Create a functioning torch with a sy 	https://www.kapowprimary.com/subjects/design- technology/lower-key-stage-2/year-4/electrical- systems-torches/						
Definitions / technical vocabulary for te							
series circuit - A closed circuit where the							

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Pre- requisite knowledge required before the lesson.	Simple knowledge of electrical systems.	Knowledge of different electrical products.	What a design criteria is.	How to evaluate.		
Key learning focus for the lesson (s)	To learn about electrical items and how they work.	To analyse and evaluate electrical products.	To design a product to fit a set of specific user needs.	To make and evaluate a torch.		
Potential amendments for SEND	May benefit from looking at a completed circuit while trying to create one of their own	Should spot the similarities and differences between the torches before evaluating them.	May need suggested materials for each component and should keep their design simple to ensure they have the time to create a quality product.	May benefit from using pre-made shapes such as bottles, boxes or toilet rolls rather than creating the housing from scratch. Use a pre- made circuit as a model for pupils to copy.		

	Year 5 Autumn 2 DT	
Theme: Structures – bridges.	Cross Curricular Links: Maths - Draw given angles, ar	nd measure them in degrees.
Key vocabulary	Prior learning	Next steps
 beam bridge /arch bridge /truss bridge corrugation rigid sandpaper/glasspaper bench hook/vice tenon saw/coping saw 	Know how to design something that is visually appealing. Know how to construct a free standing structure.	To design and create using different structures.
Key assessment questions		
Can children: complete a wooden truss bridge? identify points of weakness and reinforce them as evaluate their truss bridge against a specification?	necessary following testing?	
Knowledge to be taught		Useful pictures / diagrams / weblinks
Identify stronger and weaker shapes. Recognise that supporting shapes can help increas Identify beam, arch and truss bridges and describe Use triangles to create simple truss bridges that su Cut beams to the correct size, using a cutting mat. Smooth down any rough cut edges with sandpaper Follow each stage of the truss bridge creation as in Complete a bridge, with varying ranges of accuracy Identify some areas for improvement, reinforcing to Designing a stable structure that is able to support	pport a load (weight). [.] structed by their teacher. / and finish, supported by the teacher. .heir bridges as necessary.	https://www.kapowprimary.com/subjects/design- technology/upper-key-stage-2/year-5/structure- bridges/
Definitions / technical vocabulary for tead Arch bridge - A bridge which is built with a curved Beam bridge - A bridge which is built with horizont Corrugation - A material with lines or folds on the Lamination - Layers of material bonded together.	arch. al beams and vertical pillars.	

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Pre- requisite knowledge required before the lesson.	General knowledge of bridges. General knowledge of different ways to join materials. General safety knowledge around work working tools.	General knowledge of bridges. General knowledge of different ways to join materials. General safety knowledge around work working tools.	General knowledge of bridges. General knowledge of different ways to join materials. General safety knowledge around work working tools.	General knowledge of bridges. General knowledge of different ways to join materials. General safety knowledge around work working tools.		
Key learning focus for the lesson (s)	To explore how to reinforce a beam (structure) to improve its strength.	To build a spaghetti truss bridge.	To build a wooden truss bridge.	To complete, reinforce and evaluate my truss bridge.		
Potential amendments for SEND	Could make and test fewer structures, drawing simple conclusions; could use your demonstration piece as a visual model while they build a bridge design	Could work in pairs or small groups; could be given photos of each stage of the construction of a spaghetti bridge to refer to; could be provided with premade spaghetti triangles to allow them to focus on building the bridge structure.	Could break up the activity to make it feel more manageable by completing the making stages one at a time	Could break up the activity to make it feel more manageable by completing the making stages one at a time and reviewing with the teacher before moving on		

Theme:	Cross Curricular Links:	
Structures – playgrounds.		
Key vocabulary	Prior learning	Next steps
 apparatus design criteria equipment playground landscape features cladding 	Understanding of how to strengthen structures.	To develop specifications to inform the design of innovative, functional, appealing products that respond to needs in a variety of situations. To understand and use the properties of materials and the performance of structural elements to achieve functioning solutions.
Key assessment questions		
 consider the surrounding enviror create landscape features using a Knowledge to be taught		Useful pictures / diagrams / weblinks
Create five apparatus designs, applying t	he design criteria to their work.	https://www.kapowprimary.com/subjects/design-
Make suitable changes to their work afte	-	technology/upper-key-stage-2/year-6/structure-
Make roughly three different structures f	rom their plans using the materials available.	playgrounds/
Complete their structures, improving the to a few areas.	quality of their rough versions and applying some cladding	
Secure their apparatus to a base.		
Make a range of landscape features using		
Definitions / technical vocabulary for tea		4
Bench hook - A tool which hooks onto the when sawing.	e edge of the workbench and is used to hold woodwork still	

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Pre- requisite knowledge required before the lesson.	Understand what a design criteria is.	Knowledge of how to create strong structures.	N/A	N/A		
Key learning focus for the lesson (s)	To design a playground with a variety of structures.	To build a range of structures.	To improve and add detail to structures.	To create a surrounding landscape.		
Potential amendments for SEND	Could be given images of different playground apparatuses or a theme to work with, such as 'under the sea' or 'jungles' to help them generate ideas	Could be encouraged to simplify their structures and to use some pre-cut materials to complete the project in the time available.	Could be encouraged to make fewer, simpler structures.	Could recap how to use materials and equipment; could be encouraged to consider designs from a user's perspective.		