BIS DT Curriculum

Term & Topic	Learning questions	Vocabulary	Knowledge	Skills	Enrichment	Global Citizen Links		
	Nursery							
Autumn 2 Nursery rhymes	Explore different textures	Soft Hard Rough Squishy Firm Bendy	Knows how to use tools	 be able to use tools be able to use both hands at the same time 		Personal -Social skills and Kindness - Learn to use resources carefully		
Autumn 2 Nursery rhymes	WALT: Join large flat surfaces together	Small Large Big Stick Glue Flat Fix	 know how to use tools safely so I don't hurt myself or my friends 	 be able to use tools be able to use both hands at the same time be able to stick paper to a surface be able to place materials on top of each other 				
Spring 1 Dinosaurs	Explore different textures Join different materials	Shiny Dull Stretchy Crumbly Slippery Furry Spongy Stiff Smooth Bumpy Lumpy Rough Scratchy Prickly	 know how to use tools safely so I don't hurt myself or my friends Know how to use tools to join materials safely 	 be able to use tools be able to use both hands at the same time be able to stick paper to a surface be able to place materials on top of each other be able to join materials together 				

Summer 1 Farm	WALT: Combine different materials for a purpose	Join Stick Glue	know how to use tools safely so I don't hurt myself or my friends Know how to use tools to join materials safely Page	 be able to use tools be able to use both hands at the same time be able to stick paper to a surface be able to place materials on top of each other be able to join materials together 	
			Rece	μισι	
Spring 1 Space	WALT: Join using string to tie Join using tabs and L- Brace	Join Tie Tab L-Brace Stick Slot Fasten Corner Hold Fix	 know how to use tools safely so I don't hurt myself or my friends Know how to use tools to join materials safely Know that complex tools can be used safely to attach and join materials 	 be able to use different tools be able to Safely use and explore complex tools to attach and join be able to join different materials together be able to use both hands at the same time 	Personal -Social skills and Kindness - Sharing materials - Listening to others' ideas with respect -Learn to use resources carefully
Spring 2 Traditional Tales	WALT: Combine different types of media for an effect	Cut Stick Draw Paint Mix Tear Fold Press Layer	 know we make things for a reason or to help someone know how to use tools to join materials safely Know that complex tools can be used safely to attach and join materials 	 Be able to generate a design Be able to explore ways of constructing parts of a design Be able to select materials 	

Summer 2 Super Heros	Walt: Create using a variety of media and materials	Smooth Rough Shiny Soft Hard Thick Thin Bright Dark Bumpy flat Sparkly Dull	 know we make things for a reason or to help someone know how to use tools to join materials safely know that complex tools can be used safely to attach and join materials 	 Be able to generate a design Be able to explore ways of constructing parts of a design Be able to select materials 	
	1	1 = ~	Ye	ar 1	
Autumn Brainwave	 What materials are suitable to make a hot balloon? Design hot air balloon against criteria How can I make and test my hot air balloon? How to evaluate and improve our hot air balloon? 	Design Plan Test Evaluate Light Strong Big / Small Round Flat Smooth Colourful Hot air balloon Float Fly Lift Air Heat Basket Balloon String	Know that design is driven by a purpose Know risks to self and others when using tools (1.01/1.09)		Global Review clips of a hot air ballons flying from around the world.

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Spring 2	1. How can I	Design		Be able to generate a design	Visit to monument/ St	<u>Global</u>
Time	design my	Plan	Know that design is	Be able to explore ways of	Pauls	
Travellers	house using		driven by a	constructing parts of a design		Research homes around
	a brief?	Evaluate	purpose	Be able to produce a final	Making cardboard	the world using books.
	2. How can I	Structure	 Know risks to self 	design proposal	houses and setting	
	assemble n	y Stable	and others when	 Be able to list materials and 	alight/ putting them out	
	structure?	Materials	using tools	tools needed for production	with buckets.	
	3. How do I	Tools		 Be able to compare their 		
	evaluate m	y Cut	(1.01/1.09)	design and product	Go for a local walk in	
	structure?	Fold		explaining any differences	Belvedere to look at	
		Glue		 Understand that the design 	different types of homes	
		Edge		of products is impacted by	and compare to houses	
		Roof		material availability	in 1666 to block of	
		Wall			houses, flats and trailers.	
		Door		(1.03/1.05/1.06/1.07/1.10/1.11)		
		Card				
		Paper				
Summer 2		Straw Design	Know that design is	Be able to generate a design	Float boats in the pond	
Our Earth Our	1. What	Plan		9	in Junior school	
Home	materials d		driven by a	Be able to explore ways of constructing parts of a design	(linked pioneer passport)	
Home	you think	Evaluate	purpose	constructing parts of a design	(illiked ploffeet passport)	
	will float ar		Know risks to self	Be able to produce a final		
	why?	Sink	and others when	design proposal		
(Boat- linked	2. What key		using tools	Be able to list materials and		
to TPA	features wi	Waterproof	(4.04/4.00)	tools needed for production		
	your boat	Strong	(1.01/1.09)	Be able to compare their		
passport)	have?	Weak		design and product	1 1 1 1	
		Light		explaining any differences		
	How can I make my	Heavy		 Understand that the design 		
	boat? Wha	Stable		of products is impacted by		
	eguipment			material availability		
	will I need?			Be able to design products,		
				taking inspiration from		
	Did your boat float?			another source		
	Dual Hudl!					

	5. What would you change			(1.03/1.05/1.06/1.07/1.10/1.11/1.13)		
	next time?		 	w 2		
			160	11 2		
Autumn A to B	 What features of a type of transport do I need to move a toy from A to B? What makes a vehicle move smoothly? How is your final product different to your design? 	Design Plan Test Evaluate Roll Turn Spin Rotate Push Pull Forwards / Backwards Fast / Slow Roof Bonnet Boot Seat Wheels Heavy/light Strong/ weak Sturdy Robust	Know that design is driven by a purpose Know risks to self and others when using tools (1.01/1.09)	 Be able to use tools and techniques following guidance from an adult Be able to produce a final design proposal Be able to compare their design and product explaining any differences 	Greenwich cable cars	
Spring Buildings	 Using what I know, how can I make the strongest, 	Design Plan Test Evaluate Wood Plastic	 Know that design is driven by a purpose Know risks to self and others when using tools 	 Be able to define a main need of a context/situation Be able to articulate how their design meets the identified need 	Den building (Pioneer Passport)	Explore different dens built around the UK and world. -Consider the pros and cons for building a den,

sturdiest den? 2. What changes could I make to my den to make it stronger and sturdier and why?	Sticks String Cardboard Netting Tarpaulin Poles Pegs Frame Base Roof Wall Sides Entrance Shelter Corner Edge Strong/Weak Wobbly Sturdy Secure Stable Upright Safe Protective	(1.01/1.09)	 Be able to explore ways of constructing parts of a design Be able to use tools and techniques following guidance from an adult Understand that the design of products is impacted by material availability Be able to design products, taking inspiration from another source (1.02/1.04/1.05/1.08/1.09/1.11) 	Local walk to pond	taking into account the local area.
Live and let can we live design a		 Know that design is driven by a purpose 	 Be able to produce a final design proposal 	habitat	

simple bird Tie Hang to help wildlife? 2. Can we use our design to make a simple bird feeder to help wildlife? 3. Can we evaluate	 Know risks to self and others when using tools Be able to list materials and tools needed for production Be able to compare their design and product explaining any differences Understand that the design of products is impacted by material availability (1.06/1.07/1.10/1.11) 	
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