

Topics						
Devas	Bannerman	Porteous	Borton			
Textiles - Making Stockings	Cycle A	Cycle A	Cycle A			
	Construct a Windmill	Construct a Castle	Bridges			
Mechanisms – Moving Pictures						
	Wheels and Axles	Pneumatic Toys	Automata Toys			
Food – Fruit Aliens						
	Fruit and Vegetables	Eating Seasonally	What Could Be Healthier?			
	Cycle B Making a Puppet	Cycle B Making a cushion	Cycle B Stuffed Toys			
	Making a Monster	Making a Pop-Up book with Moving Parts	Make a Steady Hand Game			
	A Balanced Diet	Adapting a Recipe	Come Dine With Me			



Technical Knowledge								
Devas	Bannerman		Porteous		Borton			
40-60+ months  I know there are a range to different materials that can be used to make a product and that they are all slightly different.  I know some simple suggestions that could fix my product.  I know a mechanism is the part of an object that moves together.  I know a slider mechanism moves an object side to side.  ELG  Communication and Language; Listening, Attention and Understanding  - Listen attentively and respond to what they hear with relevant questions, comments and actions when being read to and during whole class discussions and small group interactions  - Make comments about what they have heard and ask questions to clarify their understanding	Cycle A  I know that the shape of materials can be changed to improve the strength and stiffness of structures.  I know that cylinders are a strong type of structure.  I know that axles are used in structures and mechanisms to make parts turn in a circle.  I am beginning to know that different structures are used for different purposes.  I know that a structure is something that has been made and put together.  I know that wheels need to be round to rotate and move.  I know that for a wheel to move it must be attached to a rotating axle.  I know that an axle moves within an axle holder which is fixed to the vehicle or toy.  I know that the frame of a vehicle (chassis) needs to be balanced.	Cycle B I know that mechanisms are a collection of moving parts that work together as a machine to produce movement. I know that there is always an input and output in a mechanism. I know that an input is the energy that is used to start something working. I know that an output is the movement that happens as a result of the input. I know that a lever is something that turns on a pivot. I know that a linkage mechanism is made up of a series of levers	Cycle A  I know that wide and flat based objects are more stable. I know the importance of strength and stiffness in structures.  I know how pneumatic systems work.  I know that pneumatic systems can be used as part of a mechanism.  I know that pneumatic systems operate by drawing in, releasing and compressing air.	Cycle B I know that mechanisms control movement.  I know that a slider mechanism moves an object from side to side and has a slider, slots, guides and an object.  I know that bridges and guides are bits of card that purposefully restrict the movement of the slider.  I know how to use sliders, pivots and folds to create paper-based mechanisms.	Cycle A I know that structures can be strengthened by manipulating materials and shapes I know that the mechanism in an automata uses a system of cams, axles and followers. I know that different shaped cams produce different outputs.	Cycle B I know that batteries contain acid, which can be dangerous if they leak. I know the names of the components in a basic series circuit, including a buzzer.		



Cooking and Nutrition								
Devas	Bannerman		Porteous		Вог	Borton		
40-60+ months	Cycle A	Cycle B	Cycle A	Cycle B	Cycle A	Cycle B		
I know the difference between fruits and	I know the difference	I know that 'diet' means	I know that not all fruits	I know that the amount	I know where meat	I know that 'flavour' is		
vegetables.	between fruits and	the food and drink that a	and vegetables can be	of an ingredient in a	comes from - learning	how a food or drink		
I know fruits grow on trees or vines.	vegetables.	person usually eats.	grown in the UK.	recipe is known as the 'quantity.'	that beef is from cattle and how beef is reared	tastes.		
, and the second	I know that some foods	I know where to find the	I know that climate	, ,	and processed,	I know that many		
I know vegetables can grow above or below the	typically known as	nutritional information on	affects food growth.	I know that it is	including key welfare	countries have 'national		
ground.	vegetables are actually	packaging.		important to use oven	issues.	dishes' which are		
	fruits (e.g. cucumber).		I know that vegetables	gloves when removing		recipes associated with		
I know names of some common fruits.		I know that the five main	and fruit grow in certain	hot food from an oven.	I know that I can adapt	that country.		
	I know that a blender is a	food groups are:	seasons.		a recipe to make it	, and the second		
I know that different fruits taste different.	machine which mixes	carbohydrates, fruits and		I know the following	healthier by	I know that 'processed		
	ingredients together into	vegetables, protein, dairy	I know that cooking	cooking techniques:	substituting ingredients.	food' means food that		
I know that a fruit has seeds.	a smooth liquid.	and foods high in fat and	instructions are known as	sieving, creaming,		has been put through		
		sugar.	a 'recipe'.	rubbing method,	I know that I can use a	multiple changes in a		
I know that eating fruit is good for me.	I know that a fruit has			cooling.	nutritional calculator to	factory.		
	seeds and a vegetable	I know that I should eat a	I know imported food has		see how healthy a food			
I know that vegetables can come from different	does not.	range of different foods	been brought into the	I know the importance	option is.	I know that it is		
parts of the plant.		from each food group.	country.	of budgeting while		important to wash fruit		
	I know that fruits grow on			planning ingredients for	I know that 'cross-	and vegetables before		
I know why different packages might be used for	trees or vines.	I know that nutrients are	I know exported food has	biscuits.	contamination' means	eating to remove any		
different foods.		substances in food that all	been sent to another		bacteria and germs	dirt and insecticides.		
	I know that vegetables	living things need to	country.		have been passed onto			
ELG	can grow either above or	make energy, grow and			ready-to-eat foods and	I know what happens to		
Communication and Language;	below ground.	develop.	I know that imported		it happens when these	a certain food before it		
Listening, Attention and Understanding			foods travel from far		foods mix with raw	appears on the		
Listen attentively and respond to what they	I know that vegetables	I know 'ingredients' are	away which can		meat or unclean	supermarket shelf		
hear with relevant questions, comments and	can come from different	the items in a mixture or	negatively impact the		objects.	(Farm to Fork).		
actions when being read to and during whole	parts of the plant (e.g.	recipe.	environment.					
class discussions and small group interactions	roots: potatoes, leaves:	1						
- Make comments about what they have heard	lettuce, fruit: cucumber).	I know I should only have	I know that fruit and					
and ask questions to clarify their understanding		a maximum of five	vegetables give us					
A4		teaspoons of sugar a day	nutritional benefits					
Managing Self		to stay healthy.	because they contain					
- Manage their own basic hygiene and personal		Llengue that recent for a	vitamins, minerals and					
needs, including dressing, going to the toilet and understanding the importance of healthy		I know that many food and drinks we do not	fibre.					
food choices.		expect to contain sugar	I know safety rules for					
rood choites.		do; we call these 'hidden	•					
		•	using, storing and					
		sugars'.	cleaning a knife safely.					



Knowledge							
Devas	Bannerman		Porteous		Borton		
Devas  40-60+ months I know in DT we call a plan a 'design.'  I know that a design is a way of planning my idea before I start.  I know that threading is putting one material through an object.  I know that 'joining technique' means connecting two pieces of material together.  ELG  Communication and Language; Listening, Attention and Understanding:  - Listen attentively and respond to what they hear with relevant questions, comments and actions when being read to and during whole class discussions and small group interactions  - Make comments about what they have heard and ask questions to clarify their understanding  Communication and Language; Speaking:  - Participate in small group, class and one-to-one discussions, offering their own ideas, using recently introduced vocabulary  - Offer explanations for why things might happen, making use of recently introduced vocabulary from stories, non-fiction, rhymes and poems when appropriate.  Expressive Arts and Design; Creating with Materials  - Share their creations, explaining the process	Cycle A  I know the importance of a clear design criteria.  I know that a client is the person I am designing for.  I know that design criteria is a list of points to ensure the product meets the clients' needs and wants.  I know that a windmill harnesses the power of wind for a purpose like grinding grain, pumping water or generating electricity.  I know that windmill turbines use wind to turn and make the machines inside work.  I know that a windmill is a structure with sails that are moved by the wind.  I know the three main parts of a windmill are the turbine, axle and structure			Cycle B I know that applique is a way of mending or decorating a textile by applying smaller pieces of fabric to larger pieces. I know that when two edges of fabric have been joined together it is called a seam. I know that it is important to leave space on the fabric for the seam. I know that some products are turned inside out after sewing so the stitching is hidden. I know that a design brief is a description of what I am going to design and make. I know that designers often want to hide mechanisms to make a product more aesthetically pleasing.	Cycle A I know what a 'footprint plan' is. I know that in the real world, design, can impact users in positive and negative ways. I know that a prototype is a cheap model to test a design idea. I know that an automata is a hand powered mechanical toy. I know that a cross-sectional diagram shows the inner workings of a product. I know how to use a bench hook and saw safely. I know that a set square can be used to help mark 90° angles.	Cycle B I know blanket stitch can reinforce the edges of a fabric material or join two pieces of fabric.  I know that soft toys are often made by creating appendages separately and then attaching them to the main body.  I know that small, neat stitches which are pulled taut are important to ensure that the soft toy is strong and holds the stuffing securely.  I know that 'form' means the shape and appearance of an object.  I know that 'fit for purpose' means that a product works how it should and is easy to use.  I know that form over purpose means that a	
they have used.			I know that pneumatic systems operate by drawing in, releasing and compressing air.			product looks good but does not work very well.  I know the diagram perspectives 'top view',	
						'side view' and 'back'.	