Lon	g Term Map and Outline for Design and Technology		
	Autumn	Spring	Summer
YN	Cutting and sticking - Collages	Junk modelling - Using tape	Loo
YR	Food: Soup Children explore the differences between fruits and vegetables using their senses (taste, texture, smell etc.). They listen to the story 'The best pumpkin soup' and discuss the key ingredients the characters used before developing a class-based vegetable soup recipe.	Junk Modelling Children explore and learn about various types of permanent and temporary join. They are encouraged to tinker using a combination of materials and joining techniques in the junk modelling area.	Children explore who then experiment and out a series of tests. Th ships before investiga
Y1	Mechanisms: Making a moving story book Experiment with sliders before planning and making three pages of a moving story book, based on a familiar story, drawing the page backgrounds, creating the moving parts and assembling it.	Textiles: Puppets Explore different ways of joining fabrics before creating hand puppets based upon characters from a well-known fairy tale. Develop technical skills of cutting, gluing, stapling and pinning.	Stru Design, decorate ar develop an understan and their key features
Y2	Mechanisms: Fairground wheel Design and create a functional Ferris wheels, consider how the different components fit together so that the wheels rotate and the structure stands freely. Select appropriate materials and develop their cutting and joining skills.	Textiles: Pouches Introduction to sewing. Pupils make their own template, accurately cut their fabric and sew a basic running stitch.	Explore and learn w ingredient combinati wrap design of their c
Y3	Structures: Constructing a castle Learning about the features of a castle, pupils design and make one of their own. They will also be using configurations of handmade nets and recycled materials to make towers and turrets before constructing a stable base.	Mechanical systems: Pneumatic toys Design and create a toy with a pneumatic system, learning how trapped air can be used to create a product with moving parts. Pupil are introduced to thumbnail sketches and exploded diagrams.	Textil Introduce two new sk appliqué. Pupils apply th
Y4	Electrical systems: Torches Pupils apply their scientific understanding of electrical circuits to create a torch made from recycled and reclaimed materials and objects. They design and evaluate their product against set design criteria.	Mechanical Systems: Making a slingshot car Transform Iollipop sticks, wheels, dowel and straws into a moving car. Pupils use a glue gun to construct, make the launch mechanism, design and create the chassis of a vehicle using nets.	Work in groups to adap ensuring that their crea
Y5	Mechanical systems: Pop-up book Create a four-page pop-up story book design, incorporating a range of functional mechanisms that use levers, sliders, layers and spacers to give the illusion of movement through interaction.	Structures: Bridges After learning about various types of bridges and exploring how the strength of structures can be affected by the shapes used, create their own bridge and test its durability - using woodworking tools and techniques.	F Research and modify a tr Cook improved versio where the ingredients th
Y6	Electrical systems: Steady hand Design and create a steady hand game, use nets to create the bases and apply knowledge of electrical circuits to build an operational circuit with a buzzer that completes the circuit when the handle makes contact with the wire.	Digital world: Navigating the world Program a navigation tool to produce a multifunctional device for trekkers. Combine 3D virtual objects to form a complete product concept in 3D computer-aided design modelling software.	Select fabrics, use tem create a waistcoat for a pattern template



ook what I can make: A showcase

Boats

hat is meant by 'waterproof', 'floating' and 'sinking', ad make predictions with various materials to carry They learn about the different features of boats and gating their shape and structures to build their own.

tructures: Constructing a Windmill

and build a windmill for a mouse (client) to live in, anding of different types of windmill, how they work res. Look at real existing examples and the functions that they carry out.

Food: A balanced diet

what forms a balanced diet, pupils will taste test ations from different food groups that will inform a r choice which will include a healthy mix of protein, vegetables and dairy.

tiles: Cross stitch – Egyptian collars skills to add to the pupils' repertoire: cross stitch and their knowledge to the design, decoration and assembly of their own Egyptian collars.

Food: Adapting a recipe apt a simple biscuit recipe, to create the tastiest biscuit eation comes within the given budget of overheads and costs of ingredients.

Food: What could be healthier a traditional bolognese sauce recipe to make it healthier. sions, creating appropriate packaging and learn about the importance of animal welfare when farming cattle.

Textiles: Waist coats

mplates, pin, decorate and stitch materials together to r a person or purpose of their choosing. Create or use a te to fit a desired person or item (e.g. teddy bear).