



St Giles C of E Academy **DT Curriculum Overview – Cycle A & B**

Structures

Food

Mechanisms

Electrical

Textiles

(Design Make Evaluate)

	Autumn	Spring	Summer
EYFS	<p>Autumn A</p> <p>Exploring materials and making representations of their own environments</p> <p>Autumn B</p> <p>Make a Menorah (Fixing Skills) Christmas Crafts</p>	<p>Spring C</p> <p>Provision Based enhancements – N – Making superhero equipment R - Making Vehicles</p> <p>Spring D</p> <p>N – Making animals Masks R – Collaborative large project – exploring different textures and materials</p>	<p>Summer E</p> <p>Provision based enhancements exploring textures to make natural pictures.</p> <p>Summer F</p> <p>N – Making Vehicles R – Designing and making boats (Links to science)</p>



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Key Stage 1 (A)	Free Standing Structure (Autumn B) Castles- What makes it strong? Children will explore the features of what makes a structure stable, They will plan and design they structure they are going to make, selecting and using tools to make their structure.	Food – Preparing Fruit and Vegetables (Spring C) Fruit and Veg Healthy Eating – Create a fruit Salad Children will know by the end of the unit how to create a simple fruit salad following a recipe that they have created. Using the correct kitchen Equipment (scissors, zesters, juicer, safe knives) safely. They will have the opportunity to examine, taste and describe a variety of fruits and vegetables.	Mechanisms (Summer E) Sliders and Levers Explore and use mechanisms in products e.g. levers, sliders, wheels and axels. Explore how mechanisms can be used in different ways (Sliders and Leavers) Plan and make a simple Poster Choose and use simple tools and materials to poster. Identify what they could have done differently or how they could improve their work in future.
Key Stage 1 (B)	Textiles (Autumn B) Sewing a toy Children will investigate a range of puppets and their features and will learn and practise a simple running stitch. They will design create and evaluate their puppet at the end of the unit. (Crafts person J. Henson (Muppets creator)	Food (Spring D) Making Bread They will explore existing products and learn who the consumer is. Children will follow a basic bread recipe to make bread. Children will evaluate their bread each time. They will have the opportunity to make 2 types of bread making a change from the first one.	Mechanisms (Summer E) Transport – Wheels and Axels Children will have the opportunity to investigate a variety of vehicles and their uses and features. They will learn what an axel and chassis is and be able to design and create their own moving vehicle.



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Lower Key Stage 2 (A)	Textiles Making a Stocking Children will investigate a range of existing products. Select who their brief is for. They will develop their sewing skills from KS1. Children will develop and use their knowledge of, and skills in, a variety of sewing techniques for joining and decorating fabric in order to design and make their very own Christmas stocking!	Structure Keep it Safe – Food Packaging Design brief – Delivering a slice of cake to a friend/family member. Children will have the opportunities to plan and make a shell structure e.g using 3d nets of varying design. Children will construct box and evaluate on an ongoing basis to see if the design is fit for purpose. Children will develop understanding of technical skills and explore cutting, joining and strengthening techniques.	Mechanisms Levers and Linkages Design a persuasive poster with a moving component. Children will learn who their target audience is and what they are going to make a poster on (Healthy Eating/ Climate change) that incorporates a moving part, they will design create and evaluate.
Lower Key Stage 2 (B)	Structure Mini Greenhouses (PlanBee) Children will find out the purpose of a greenhouse and how it works, before moving on to exploring how structures like these can be made stable, and what materials would be the most appropriate to use. Children then apply this knowledge and understanding when designing, making and evaluating their very own mini greenhouse!	Food Healthy and Varied Diet Why are certain foods in season at different times of year? Why is it good to eat seasonal food? How can we include seasonal food in a healthy, varied diet? Children will look at creating a recipe by researching food that is in season for that time of year. Ensuring it is healthy and using produce grown in the UK	Electrical Light Up Sign (PlanBee) Children will design a light up sign for the Summer Fair, They will investigate current products that have light up features. They will design and develop their ideas for a decorative sign. They will be able to select the correct, tools equipment and materials to create the sign and construct it as part of a team. They will be able to evaluate their end product.



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Upper Key Stage 2 (A)	Mechanisms CAMS – Moving Toys (PlanBee) Children will investigate cam mechanisms and toys that contain them. Discover how different shaped cams can alter the movement of the follower and how to create a sturdy structure using a variety of tools and techniques. Children will have a chance to design, make and evaluate their own moving toy with a cam mechanism.	Structure Bridges (Plan Bee) Research different famous bridges and how they were built. Design a model of a bridge, inspired by a famous bridge. Decide on the key functions of the bridge such as durability and strength. Make a model of the wall that has been designed. Evaluate the model and improve it, using apply their understanding of how to strengthen, stiffen and reinforce more complex structure.	Food Leavers Meal Children will create a three-course meal, making sure they follow food hygiene safety, keep to a budget and create and healthy balanced diet. They will create their three-course meal for SLT.
Upper Key Stage 2 (B)	Textiles Applique Look at a variety of clothes and designs using the applique method. Children create their own applique designs to represent things that are significant to them. Sew these designs onto material to create a class appliqué cloth. Evaluate their design and final project.	Electrical Motors (PlanBee) Fairground With opportunities to include programmable models, CAD and electrical circuits, this scheme will challenge the children to use their previous knowledge as they build prototypes and stable structures to hold their moving ride.	Food Leavers Meal Children will create a three-course meal, making sure they follow food hygiene safety, keep to a budget and create and healthy balanced diet. They will create their three-course meal for SLT.

Red – These topics are non-negotiable and are required to be taught and revisited on both cycles to ensure there is clear progression in the substantive knowledge taught and there is an equality of opportunity for all children. Green - Bespoke enrichment topics linked to our locality, community and our cohorts.