Farsley Springbank Primary School
DT Long Term Plan

	Autumn		Spring		Summer	
Reception (Links to EYFS Framework)	**Main focus:** Cutting skills and joining materials with glue and tape.	**Main focus:** Joining with split pins, folding material to make flaps.	**Main focus:** Concertina folds and fringing using small snips	**Main focus:** Joining 3D boxes using tape, glue and fringing techniques	**Main focus:** Folding springs to make simple pop-up mechanisms.	**Main focus:** Simple wheel and axel mechanisms using tech card, dowel and cardboard wheels.
Year 1						
	Main Focus: Mechanical Systems **Project Outcome:** Design, make and evaluate a moving Christmas card that has a lever, slider or rotation mechanism.		**Main Focus:** Structures **Project Outcome:** Design, make and evaluate a bridge free standing structure. The structure should hold a toy car or train for use in play.		**Main Focus:** Food **Project Outcome:** Design, make and evaluate a fruit salad. Children to use fork technique to cut fruit safely.	
Year 2						
	Main Focus: Textiles **Project Outcome:** Design, make and evaluate a gadget case. The case should be able to hold an item such as a phone and protect it.		**Main Focus:** Food **Project Outcome:** Design, make and evaluate a cous cous salad. Children make design choices based on taste, texture and appearance.		**Main Focus:** Mechanical Systems **Project Outcome:** Design, make and evaluate a moving toy for a reception child. The moving toy will have up to 3 wheels and axels.	
Year 3						
	Main Focus: Textiles **Project Outcome:** Design, make and evaluate a bag. Children will use 1 piece of fabric to fold, sew the seams and add additional features such as handles and pockets.		**Main Focus:** Structures **Project Outcome:** Design, make and evaluate a 3D shell structure that will contain facts or an artefact to go in a history museum. The children will design their own net which will form a 3D shape with openings or windows.		**Main Focus:** Food **Project Outcome:** Design, make and evaluate a healthy pizza. Children will use the eat well plate to inform their pizza design (balanced meal).	

Year 4	**Main Focus:** Electrical systems **Project Outcome:** Design, make and evaluate a Christmas style light decoration that incorporates a hidden electric circuit with a switch.		**Main Focus:** Mechanical systems **Project Outcome:** Design, make and evaluate a moving book. The book must incorporate levers and linkages that use fixed and moving pivots.	**Main Focus:** Food **Project Outcome:** Design, make and evaluate a savoury hot dish that is made from local produce.
Year 5	**Main Focus:** Food **Project Outcome:** Design, make and evaluate a savoury hot dish. Children use a basic tomato sauce and choose herbs and spices to alter the taste of the dish.		**Main Focus:** Mechanical systems **Project Outcome:** Design, make and evaluate a toy for a toddler that has moving parts. Children to use cams and pulley systems to make parts of the toy move.	**Main Focus:** Textiles **Project Outcome:** Design, make and evaluate a pair of indoor shoes that are suitable to wear at school. Children use a number of fabric shapes to construct a 3D product.
Year 6	**Main Focus:** Food **Project Outcome:** Design, make and evaluate a meal suitable for a vegan diet. Children to investigate protein substitutes that can supplement a vegan diet.	**Main Focus:** Structures **Project Outcome:** Design, make and evaluate adventure playground equipment. Children to design a frame structure prototype.		**Main Focus:** Electrical Systems **Project Outcome:** Design, make and evaluate an alarm system that will protect a personal item such as phone, iPad or game device. Children to use programming skills and Microbits. (Links to the computing curriculum).