

	Term 1	Term 2	Term 3
Unit of work	Mechanisms Sliders and levers	Structures Freestanding structures	Food Preparing fruit and vegetables
Composite Knowledge	What is a slider? What is a lever? Which part of the mechanism is a pivot?	What is a freestanding structure? How can we stop freestanding structures from falling over? How can we make a structure stronger, stiffer and more stable?	How many different types of fruit are available? What vocab can you use to describe the smell, taste and texture of different fruit? Why do we need fruit and veg to have a balanced diet? How do we prepare food in a safe way?
Component knowledge	Understand that different mechanisms produce different types of movement. Describe how a slider moves Describe how a lever works Identify the pivot.	Recognise and describe what a freestanding structure is. Observe and construct different methods to prevent a freestanding structure from falling over. Demonstrate different techniques to make a structure stronger, stiffer and more stable.	Explain the importance of having fruit and vegetables as part of a balanced diet. Recognise different types of fruit. Demonstrate how to prepare food in a safe way.
National Curriculum KS1 (skills)	Design design purposeful, functional, appealing products for themselves and other users based on design criteria generate, develop, model and communicate their ideas through talking, drawing, templates, mock-ups and, where appropriate, information and communication technology Make select from and use a range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing] select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics Evaluate explore and evaluate a range of existing products evaluate their ideas and products against design criteria Technical knowledge build structures, exploring how they can be made stronger, stiffer and more stable explore and use mechanisms [for example, levers, sliders, wheels and axles], in their products Cooking and nutrition use the basic principles of a healthy and varied diet to prepare dishes		

	understand where food comes from		
Vocabulary	slider, lever, pivot, slot, bridge/guide card, masking tape, paper fastener, join pull, push, up, down, straight, curve, forwards, backwards design, make, evaluate, user, purpose, ideas, design criteria, product, function	cut, fold, join, fix structure, wall, tower, framework, weak, strong, base, top, underneath, side, edge, surface, thinner, thicker, corner, point, straight, curved metal, wood, plastic circle, triangle, square, rectangle, cuboid, cube, cylinder design, make, evaluate, user, purpose, ideas, design criteria, product, function	Fruit and vegetable names Knife, fork, chopping board, skewer soft, juicy, crunchy, sweet, sticky, smooth, sharp, crisp, sour, hard, flesh, skin, seed, pip, core, slicing, peeling, cutting, squeezing, healthy diet, choosing, ingredients, planning, investigating tasting, arranging, popular, design, evaluate, criteria
Links to prior knowledge	Early experiences of working with paper and card to make simple flaps and hinges. Experience of simple cutting, shaping and joining skills using scissors, glue, paper fasteners and masking tape.	Experience of using construction kits to build walls, towers and frameworks. Experience of using of basic tools e.g. scissors or hole punches with construction materials e.g. plastic, card. Experience of different methods of joining card and paper.	Experience of common fruit and vegetables, undertaking sensory activities i.e. appearance taste and smell. Experience of cutting soft fruit and vegetables using appropriate utensils.
Key knowledge for assessment			What is a healthy diet? Can I name some fruits and vegetables? What fruits and vegetables grow in the UK? What fruits and vegetables do I like and why?