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|  | Autumn  | Spring | Summer |
| Reception | Children will know how to use adhesive tape and different sorts of glue for their chosen purpose.Children will know how to make a treasury tag join and a cardboard flange join. | Children will know how to make an L-brace and a slot join.Children will know how to create tabs to make a standing wall.  | Children will know how to make a split pin join. Children will know how to sew to join |
| Year 1 | Structures - Constructing Windmills  | **Textiles – sew a dressing table mat using binka and embroidery thread**Learning new stitches – running stitchDesigning matSewing matEvaluating | **Food – fruit and vegetables**Fruit or vegetableWhere fruit and vegetables growSmoothie ingredient tastingMaking smoothies |
| Year 2 | **Structures – Babies Chair** Stability, strengthening, fixing and testing**Textiles**Design and make puppets for puppet show | **Mechanisms – a moving monster**Pivots, levers and linkagesMaking linkages using card, split pinsDesigning a monsterMaking a monster using card | **Mechanisms****Wheeled vehicles** – learning to use tools safely |
| Year 3 | **Food – Eating seasonally** Food from different climatesRhubard CrumbleSeasonal Tart British seasonal foods Rainbow foods – nutrients in fruit and vegeMaking tarts using seasonal produce | **Digital world – electronic charm**Explore smart wearables – looking at a micro-bitProgramme an e charm- Create and decorate a foam pouchDesign a sale poster for charm using IT | **Structures – constructing a castle**Features of a castleDesigning a castle -create a net and labelNets and structuresBuilding a castle and decorate |
| Year 4 | **Structures – Pavilions**Exploring frame structures using tooth picksDesign a pavilionMake a strong frame (lolly sticks, tissue, tooth picks)Clad their structureBuild a Roman Road – team work using boxes (links Pompeii) | **Mechanisms - making a sling shot car**Make a chassis and slingshot mechanism – learn how slingshot cars workDesigning car bodyMaking car bodyAssembly and testing | **Electrical systems – torches**Electrical products -differences between electrical and electronic and how to create a simple circuitEvaluating torches – look at a range of torches and identity features – housing, reflector, circuit and switch Torch design Torch assembly  |
| Year 5 | **Mechanisms**Making a pop up bookPop up book design, make a pop up book and add illustrations and writing**Textiles**Weaving**Structures**Design and make a house for a strong anglo saxon house that will stand up. | **Electrical Systems – electronic greeting cards**History and development of cardsLearn about series circuits and how to integrateCreate a mood boardComplete electronic greeting card**Textiles** Design and make a stuffed easter eggs – sew and decorate with initials.  | **Structures**Spaghetti bridges – group, make the strongest bridge competition look at different bridge designers and designs |
| Year 6 | **Electrical systems - Steady Hand game design****Business Enterprise****Textiles – Poppies** Preparing fabric – cut out using templateAssembling and sew togetherDecorate | **Mechanisms - Automatas Toys**Preparing wood for assembly, measuring, mark making and cuttingFrame assemblyExperimenting with cams to inform a design decision.To apply finishing touches | **Digital World – navigating the world**Navigating the world Programming a navigating toolProduct concept 3D Cad ModelsProduct Pitch |