Rey concepts Kinife skills, Personal Safety,Safe use of parts of cooker. Reading recipes to preparing & cooking a range of dishes safely & hygienically. How to apply eatwell guide to healthy diet, Food preparation. Skills of home providedge Rotation 2 - Building on skills & knowledge Rotation 2 - Building on skills & knowledge Reading on skills & knowledge Rotation 2 - Building on skills & knowledge Reditin 2 - Building on these skills to develop a motor driven mechanism Recipe quantities, weighing & measuring, ratios, fractions Recipe quantities, weighing & measuring, ratios, fractions Recipe quantities, weighing & measuring, ratios, fractions Release and munal tools methods of dying (resist) methods of dying (resist) methods of dying (resist) conflict and compromise has to be made. Draw 3D. Understanding Woods and Plastics. Work workshop. Using a range of dishes safely shygienically. How to intergrate electronic circuits into casings. Use of CAD/CAM. Drawing skills, Marking out, Working with accuracy, Filing, Using machines, Working with accuracy, Filing, Using machines, Straight Lines, corners, changing stitches, Pattern placement and cutting, Independent and the propagation. Skills used in primary school DT. Home cooking. Visiting restaurants/eating venues in UK & abroad. Skills used in primary school DT Skills used in pri	
Topic/Key area Food & Cooking To acquire a range of food skills, increasing in complexity and accuracy, to cook a range of fodd skills, increasing in complexity and accuracy, to cook a range of dishes, safely and hygienically, and to apply their knowledge of nutrition and food prise and cook a variety of dishes. We prove ance, Prepare and cook a variety of dishes. Engineering: Learning the Basics Link to future lea Food & Cooking To acquire a range of food skills, increasing in complexity and accuracy, to cook a range of dishes, safely and hygienically, and to apply their knowledge of nutrition and food prise and cook a variety of dishes. Understanding the design process drawing in SD (lossmetric) building to producing Design Ideas, Understanding the design for process with specification and Design Ideas, Understanding the design for process with specification and Design Ideas. Understanding the design for process with specification and Design Ideas. Understanding the Gesign Process with specification and Design Ideas. Understanding the Gesign Process with specification and Design Ideas. Understanding the Gesign Ideas. The range of class-sembly line. Ethic methods of dying (resist) Food preparation. Key concepts Engineering: Learning the Besign Ideas. Understanding the Gesign Ideas. Understanding the Gesign Ideas. Understanding Holes and Plastics. Workshop Using a range of Inhand Inhan	Electronics
To acquire a range of food skills, increasing in complexity and a acutavary, to cook a range of dishes, safely and hygienically, and to apply their knowledge of nutrition and food provenance, Prepare and cook a variety of dishes. Understanding Metals, Working safely in a Engineering workshop Using a range of hand and machine perated machines such as, Guillotine, Bench Drills, Foding machines acut has, Guillotine, Bench Drills, Foding machines, Mill, Dip Coating and mnual tools Key concepts Key concepts Kiffe skills, Personal Safety, Safe use of parts of cooker. Reading recipes to preparting & cooking a range of dishes safely & hygienically, How to apply eatwell guide to healthy diet. Food preparation. Skills Skills Prior Knowledge Recipe quantities, weighing & Recipe	Nightlight circuit and structures
Knife skills, Personal Safety, Safe use of parts of cooker. Reading recipes to preparing & cooking a range of dishes safely & hygienically. How to apply eatwell guide to healthy diet. Food preparation. Skills used in primary school DT. Home cooking. Visiting restaurants/eating venues in UK & abroad. Prior Knowledge Rotation 2 - Building on skills & knowledge Rotation 2 - Building on skills & knowledge Rotation 2 - Building on skills & measuring, ratios, fractions Reading recipes to preparing & cooking a range of dishes safely & hygienically. How to apply eatwell guide to healthy diet. Food preparation. Skills used in primary school DT. Home cooking. Visiting restaurants/eating venues in UK & abroad. Skills used in primary school DT. Skills used in primary school DT Ski	transistor amplification and switching. PCB manufacturing. Soldering skills and working safely in electronics. Evaluating products through a product disassembly. Terms relating to and features of structures. How to strengthen structures through triangulation. ets, chisels, s, millers.
Reading recipes to preparing & cooking a range of dishes safely & hygienically. How to apply eatwell guide to healthy diet, Food preparation. Skills used in primary school DT. Home cooking. Visiting restaurants/eating venues in UK & abroad. Prior Knowledge Rotation 2 - Building on skills & knowledge Rotation 2 - Building on these skills to develop a motor driven mechanism Recipe quantities, weighing & measuring, ratios, fractions Simple number manipulation throughout, Discrete costing Pattern lay, seam allowances, Lines, corners, changing stitches, Pattern placement and cutting, Tie dye, Pinning, Turning Corners, RS to RS Skills used in primary school DT Ski	and tools, filing
Skills used in primary school DT. Home cooking. Visiting restaurants/eating venues in UK & abroad. Prior Knowledge Rotation 2 - Building on skills & knowledge Rotation 2 - Building on these skills to develop a motor driven mechanism Recipe quantities, weighing & measuring, ratios, fractions Skills used in primary school DT Skills used in primary school DT Skills used in primary School - measuring and students may have a family member who is a Electronic circuit from previous module. Rotation 2 will look in more depth at the construction of fibres, build on sewing machine skills and look in more depth about the impact the fashion industry has on the environment. Recipe quantities, weighing & measuring, ratios, fractions Simple number manipulation throughout, Discrete costing Pattern lay, seam allowances, Measuring and marking out throughout	, ,
Rotation 2 - Building on skills & knowledge Rotation 2 - Building on skills & knowledge Rotation 2 - building on these skills to develop a motor driven mechanism Rotation 2 - Building on skills & knowledge Rotation 2 - Building on skills & suit on skills they build on sewing machine skills and look in more depth at the construction of fibres, building on skills & suit on skills they build on sewing machine skills and look in more depth at the construction of fibres, building on skills & suit	marking. Some Some knowledge of electricity and basic electronics from science/primary. Complete nad incomplete circuits. Switch/cell/lamp. Volts and amps. Variab;le depth covered
Link to future lea driven mechanism driven mechanism build on sewing machine skills and look in more depth about the impact the fashion industry has on the environment. Recipe quantities, weighing & measuring, ratios, fractions Simple number manipulation throughout, Discrete costing Pattern lay, seam allowances, Measuring and marking out throughout	by primaries.
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Numeracy session (Wk 5)	Reading resistor values and resistor calculations.
Pupils read recipes to make dishes,Keyword list.Use correct relevant terminology,Descriptive adjectives, sensory terminology Pupils read recipes to make dishes,Keyword list.Use correct relevant terminology,Descriptive adjectives, sensory terminology Key words list, Use of technical vocab, use of articles on plastics Key words list, Use of technical vocab, use of articles on plastics Key words list, Use of technical vocab, use of articles on plastics New words list, Following instructions, technical vocab, use of articles on plastics New words list, Following instructions, technical vocab, use of articles on plastics New words list, Following instructions, technical vocab, use of articles on plastics New words list, Following instructions, technical vocab, use of articles on plastics New words list, Following instructions, technical vocab, use of articles on plastics New words list, Following instructions, technical vocab, use of articles on plastics New words list, Following instructions, technical vocab, use of articles on plastics New words list, Following instructions, technical vocab, use of articles on plastics New words list, Following instructions, technical vocab, use of articles on plastics New words list, Following instructions, technical vocab, use of articles on plastics New words list, Following instructions, technical vocab, use of articles on plastics New words list, Following instructions, technical vocab, use of articles on plastics New words list, Following instructions, technical vocab, use of articles on plastics New words list, Following instructions, technical vocab, use of articles on plastics New words list, Following instructions, technical vocab, use of articles on plantics New words list, Following instructions, technical vocab, use of articles on plantics New words list, Following instructions, technical vocab, use of articles on plantics New words list, Following instructions, technical vocab, use of articles on plantics New words list	terminology, Key words list, following instructions, technical terminology, names of tools and processes
Knowledge organ Completed for rotation 1 Completed for rotation 1 Completed for rotation 1 Completed Rota 1 Completed for Rotation 1	Completed for Rotation 1
Supporting resou Google classroom resources by lesson Google classroom resources, GC Quizes, Self help Videos, Linked to SOL, In GC and Department area Google classroom resources by lesson	Google classroom resources by lesson

DT KS3 Curriculum O	verview 2022-23				
Rotation 2	Food	Engineering	Textiles	Product design	Electronics
Topic/Key area	Nutrition & Health	Automata	Textilles : Recycled denim bucket hats	Product Design - Anthropometric Desk / shelf lamp project	PIC controlled motor for engineering automata project.
	pupils to develop and demonstrate a range of food skills, increasing in complexity and accuracy, to cook a range of dishes, safely and hygienically, and to apply their knowledge of nutrition and food provenance. In addition, they will consider the factors that affect food choice, food availability and food waste.	into a working product	Fast Fashion, Fabric construction kintling,weaving and bnding wth a focus on weaving. The impact of fashion on the environent with a focus on denim and cotton, Sweatshops and globalisation, Fashion illustration and drawing, Experimentation and sampling with materials, presentations, introduction of textiles artists/designers. Ian Berry, Thome Brown and Irsi Van Herpin	Development of hand-eye coordination, and manipulative and deuterly skills to measure, mark out, cut and assemble a wooden Anthropometric desk / shelf lamp. Development of communication skills by the creation of annotated design sketches that fully outline design concepts.	The prevalence and omportnace of programmeable technology in the modern world. Analogue and digital signals, programming, FETs. Mechanical systems, types of motion, converting motion, cams and followers, crank and sloder, gear trains, gear rations and mechanical advantage.
Skills	Knife skills, Personal Safety while working in a food kitchen. Safe use of parts of cooker. Reading recipes to preparing & cooking a range of dishes safely & hygienically.	Designing and Development. Developing 3D Digital design, Further workshop skills, Intergrating Electronics/Mechanisms into products	Applique, collage, seam allowances, distressing fabrics, 3d/curved seams, ilustartion technique, pinning and ironing	Drawing skills, marking and cutting out using hand tools, filing and shaping materials, using machines, wood assembly and finishing.	Programming, soldering.
Delas	Knowldege & skills learned in rotation 1. Knife skills. Safe & hyglenic working in the kitchen. Safe & hyglenic preparation of a range of dishes. Home cooking. Visiting restaurants/eating venues in UK & abroad.	How to sketch. Safe workshop practice, Use of hand and machine tools, Electronic circuit from previous roataion	Recycling upcycling, down cycling and precycling. The origins of fibres and classification of fibres Handcrafted and mass manufactured. disassembly. Cradle to Grave manufacture, Synthetic fibres. The concept of an assembly line. Ethinc methods of dying (resist), Controlling and setting up sewing machine, Straight Lines, corners, changing stitches, Pattern placement and cutting. Tie dye, Pinning, Turning Corners, RS to RS	How to sketch. Safe workshop practice, Use of hand and machine tools, Use of CAD/CAM	PCB manufacture, populating and soldering a circuit. Systemd diagrams, circuit schematics, pcb layouts, reistors, transistors.
Link to future	Rotation 3 - Making choices - secure and demonstrate a range of food skills, increasing in complexity and accuracy, to cook a wider range of dishes, safely and hygienically, and to apply their knowledge of nutrition and food provenance.		ROTA 3 in year 9 will build on key skills specifically need for GCSE textiles. Analysis of artist and designers, Experimentation, illustration and presentation techiques, decorative and advance constructuon skills. PJs and Culture Cushion	Rotation 3 in year will build on key skills specifically needed for GCSE Product Design.	Rotation 3 will look at the concepts learned in this rotation and develop them in greater depth.
Numeracy	Percentages, ratios, mass, length, time, money, ratios.	Calculating material sizes, marking out, Mechanical ratios and effective mechanisms	Seam allowances, nets (patterns) 3d structures	Calculating material sizes, marking and cutting out accurately.	Wrinting algorithms, calculating gear ratios and MA.
Literacy	Key words, specialist terms, sensory adjectives, Learning new vocabulary through reading recipes. Specialist relevant, topical articles.	Understanding drawings, extracting key information and producing concise be relavant and effecting information	Key words list, Use of technical vocab, use of articles on fast fashion and sweatshop, develpment oral literacy via presentation skills.	Key words list and use of technical vocabulary. Extracting key information and communicating ideas through detailed annotation. Producing detailed Specifications to guide designing.	Key words list and use of technical vocabulary. Extracting key information and communicating ideas through detailed annotation. Hwk 1 (research and present)
Knowledege			Created	Created for Rotation 2	
organiser Supporting resources	Created for Rotation 2 All resources in SOL and GC. All shared in KS3 DT area	Created All resources in SOL and GC. All shared in KS3 DT area	All resources link on SOL and in GC. All in shared DT area	Google classroom resources by lesson	Created for rotation 2 Google classroom resources by lesson, PCBs, mechanical systems kits
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