

TERM

Curriculum Map 2023 - 2024 - Design & Technology Department



CONTENT AND SKILLS

Key Stage 3 Students at Key Stage 3 follow projects both in Design & Technology and in Food Preparation & Nutrition. These projects cover all the key Assessment Objectives and embed knowledge and understanding of the foundation skills required in both Key subject areas.

The main aim of this project is for students to gain skills and knowledge in the safe use of workshop tools and equipment, including H&S awareness and the beginnings in the design process structure. They focus on designing skills, wood and plastics theory, and some formal drawing techniques. Students also work on developing their skills in materials knowledge using our interactive Focus E-Learning software.

YEAR 7

- Design considerations and generating design specifications
- H&S in the Workshop

YEAR 8 Yr8 Mechanical toy:

This project focuses on mechanisms and structures. The development of a mechanical toy using a range of mechanisms that covert different types of motion. There is a focus on mechanical systems, maths in D&T, building on design and making skills, improving the independence in the design problem solving environments.

- Types of motion
- Mechanisms
- Design and development
- Lever, gears ,and mechanical advantage
- Materials manipulation and combining materials
- Types of forces
- Use of Focus Software for independent research and design development.

YEAR 9 Yr9 Hang Ups:

The year 9 Hang-Up's project has been uniquely designed to give students an opportunity to work with processes and materials that are not normally used until key stage 4. This assignments product outcome is essentially a hook style hanging device that can be affixed to a vertical surface and be used for hanging / storing a variety of items in order to save space. The two processes that will form the backbone of the projects practical element are: the lamination of veneer timber to form a versatile high strength hook and the use of moulded, Glass reinforced plastic to produce a custom made graphic back panel upon which the hook will be attached.

The Project includes:

- Formulation of a design brief / specification.
- User group identification

Key Stage 4

Students at Key Stage 4 can choose to follow a GCSE or Level 1 Qualification within the Design & Technology Department. These qualifications include GCSE Design & Technology, GCSE Food Preparation & Nutrition, Level 1 Certificate in Practical Horticulture or Level 1 Certificate in Motor Vehicle Studies (motorcycle pathway).

TERM

GCSE Design & Technology

In addition to the core technical principles, all students should develop an in-depth knowledge and understanding of the following specialist technical principles:

YEAR 10

Common Specialist Technical Principles

- forces and stresses
- Improving Functionality
- Ecological and Social Footprint
- The 6 R's
- Scales of Production

Links to: Calculation of material costs. Selection and use of materials considering end of life disposal. Changing the magnitude and direction of forces. Selecting appropriate materials. Understanding of how to choose appropriate energy sources. Ethical factors and the social footprint of materials used in products.

Assessment:

Common Specialist Technical Principles Assessment Test Paper – 1 hour

GCSE Design & Technology

- Controlled Assessment
- 4.4.4.2 Section B: Producing a design brief and specification (10 marks) Based on conclusions from their investigations students will outline design possibilities by producing a design brief and design specification. Students should review both throughout the project.

YEAR II

4.4.4.3 Section C: Generating design ideas (20 marks) Students should explore a range of possible ideas linking to the contextual challenge selected. These design ideas should demonstrate flair and originality and students are encouraged to take risks with their designs. Students may wish to use a variety of techniques to communicate. Students will not be awarded for the quantity of design ideas but how well their ideas address the contextual challenge selected. Students are encouraged to be imaginative in their approach by experimenting with different ideas and possibilities that avoid design fixation. In the highest band students are expected to show some innovation by generating ideas that are different to the work of the majority of their peers or demonstrate new ways of improving existing solutions.

Links to: Measurement and marking out of component parts for models. Scaling drawings. A presentation of data; tabulate responses and findings. SI units; identify appropriate commercially available stock forms and select appropriately. Composition of some important alloys; selecting appropriate metal alloys as required. SI units eg accurate use of appropriate tolerances +/- 2mm, resistor tolerance and seam allowance.

Assessment:

Formal NEA Assessment - Section B and C

- Joining wooden materials housing, rub, dowel and bridal ioints
- Use of the vacuum former
- Use of Hand tools Tenon saws, coping saws, chisels, marking gauges, tri squares, rules, planes.
- Machine tools Sanders, Pillar Drills, Pistol Drills, Vacuum formers, Centre Lathe
- Isometric Drawing
- Critical review and evaluation

Assessment:

30 minute Formal Assessment and summative booklet and practical assessment.

Food

In Year 7 the students learn about hygiene and safety in the kitchen, tools and equipment.

3.4 Safety in a Food Room, bacteria video, & how to use a cooker safely. H/W Design a poster

3.4 Food safety: Safe practices, Food storage and 3.3.1.1 cooking of food. Task: Hands of bread experiment hypothesise and reasoning, 3.2.3.1 Basic nutrition and the consequence of a poor diet. Macronutrients/Micronutrients. Eatwell plate & Function of the macronutrients & McDonald boy. 3.3.2.4/3.4 Fruit and Vegetables -Enzymic browning, the cause & prevention. Experiment. 3.2.2.1 Fruits & vegetables: Their nutritional composition, why we should eat them and the amount we should eat. Research and data task. Kahoot: Healthy Eating quiz.

H/W Bring 4 varieties of fruit & carton of juice.

3.6.1.2 Food provenance – seasonality of fruits and vegetables. H/W Bread, cheese, Toppings of choice (1 fruit or vegetable ingredient).

3.2.1.3 Carbohydrates: Their function, where found, starches and sugars (intrinsic and extrinsic). GI Index. 3.5.1.1 Factors which influence food choice - H/W - Muffin ingredients -50p plus fruit choice.

- Building on development of manufacturing skills in the workshop and understanding of material properties.
- Critical review and evaluation maths content at KS4.
- Maths in D&T

Assessment:

30 minute Formal Assessment and summative booklet and practical assessment.

Food

In Year 8 students learn about a healthy lifestyle through the Eat well plate and hydration.

3.2.2.1 Basic Nutrition recap – Macro and micro nutrients. Role of Fibre poo practical.

3.2.1.1/3.3.2 /3.5.3 Functional and chemical properties of food Protein denaturation - the affect of acid marinating. H/W Chicken Fajita ingredients.

3.2.3. Factors affecting food choice -.sensory analysis: Full sugar v low sugar, full fat v low fat. 3.3.2.5 Raising Agents: Biological, chemical, physical - Yeast experiment. Kahoot quiz. H/W Quick bread - bring 50p

3.2.1.2 Fats & Oils - Function and the affect on the environment, Design a Twitter campaign.

3.5.1.1 Factors which influence food choice - Brainstorm all factors then look at Costings in more detail. Design a meal for a family of 4 that costs under £5 to make. H/W Bring ingredients for your low cost meal.

Practical:

S9 - Chicken Fajitas S1, S4, S7, S10. S11 – Bread S1, S2 Meal on a budget

Research into existing products.

- Design / development.
- CAD / CAM
- Sacrificial mould manufacturing
- Vacuum forming
- **GRP** processing
- Timber lamination and finishing.
- Mechanical fixings
- Materials and sustainability.
- Critical review and evaluation.
- Product testing.

Assessment:

30 minute Formal Assessment and summative booklet and practical assessment.

Food

The food course in year 9 builds upon studen'ts prior skills and experiences gained in key stage 3. Modules on food storage / safety and practical sessions based on world inspired foods are the cornerstone to this year's foci.

- Understanding bacteria both harmful and friendly.
- Temperature (storage and testing) and food.
- Industrial laws / regulations of food labelling.
- Origins of foods
- Food exports
- Local foods and food mileage
- Quality assurance
- Dietry needs
- Food for life.

Assessment:

30 minute Formal Assessment and summative booklet and practical assessment.

GCSE Food Preparation & Nutrition

Autumn 1

3.4 Basic Food Hygiene – coloured chopping boards, food storage, cooking temperatures, conditions for bacterial growth.

H/W Burger ingredients - testing for readiness assessment: use of a food probe.

3.5.1.1 Factors which influence food choice

Sensory Evaluation - Preserved foods v fresh.

3.6.1.2 Food and the environment

Responsible farming: Organic, intensive farming. Design a Power point presentation. Visit to the Patch.

Design a meal using responsibly farmed produce.

H/W Bring ingredients.

Practical:

Produce a meat dish & test for readiness using the food probe. FPT: Water based - blanching vegetables to destroy enzymes. (S6) Oxidation: Preventing vitamin loss (\$2,3,6)

Various Skills: Make a dish that uses responsibly farmed ingredients. Photograph packaging as evidence and note the price difference.

Autumn 2

3.3.1.1 How different cooking techniques affect the nutritional content, taste and texture of food.

- · Grilling, frying, baking, boiling, stir-frying, steaming, poaching.
- FPT- Cooking potatoes.

3.3.2 Functional and chemical properties of food Maillard Reaction - cooking meat using different methods.

Shallow fry, boil, grill, oven, microwave. H/W Bring ingredients to make a meat dish: Best method chosen

as their own practical dish technique FPT: Dextrinization – Scones using different appliances and

different methods. Grill, deep fry, oven, microwave. H/W Bring £1 for scones: Best method chosen as their own practical dish technique

Practical: FPT: Scones cooked in different areas of the cooker & difference between gas & electric. (S1, S4, S6, S11)

Experiment – taste difference of different cooking methods.e.g. potatoes, bread, meat (S6)

Level 1 Certificate Motor Vehicle Studies (Motorcycle pathway) Refresh on General Health & Safety

Engine Operating Systems

- Vehicle Spark Ignition Systems
 - Main components of an engine, the four stroke cycle, two stroke cycle, dismantling & reassembling an engine, checking work
 - The main components, removing and replacing ignition systems components, checking ignition timing.

Assessment: unit worksheets with unit test Oral, visual, functional, measurements.

Skills: identify the main engine components, Engine component removal and fitting techniques.

GCSE Food Preparation & Nutrition

Autumn 1

Revision:

3.1: Macro & micronutrients. 3.2: Nutritional needs.

Food science recap: Terms to be familiar with:

Gelatinisation, caramelisation, maillard reaction, dextrinization.

NEA2 Task:

Investigate – street food, Foods rich in Iron, or the Dietary Needs of the

Plan: Find suitable dishes that could be made, analyse the suitability, skills, equipment and finish.

Make: Practice a High Level Skill. And evaluate its success.

Autumn 2 Revision:

3.3: Cooking & Heat transfer

3.4: Food spoilage

Design 2 suitable dishes and analyse the nutritional composition and their suitability to the task.

Skills: Analyse the skills needed to make the dishes, then look at upskilling the products to evidence their full potential.

Make: Practise 2 more skills and evaluate their success.

Level 1 Certificate Motor Vehicle Studies (Motorcycle pathway)

Refresh on General Health & Safety

Transmission systems

Gearbox, clutch, final drive, driveline, single / multi plate clutches, rear wheel drive, and torque converter operation.

Vehicle steering & suspension systems

Major components of the steering systems, rack & pinion, power steering, purpose, springs, torsion bar, leaf springs, coil springs, dampers, struts.

Assessment: unit worksheets with unit test Oral, visual, functional, measurements.

Skills: identify basic fault-finding, worn and damaged parts. Understand correct tightening procedures

Practical: S2 - Vitamins Safe knife handling (claw & bridge): Fresh fruit salad. (oxidisation/enzymic browning) S4, S6 - Safe use of the Grill: Pizza Toast (Eatwell plate) S2, S4, S6, S7- Safe use of the oven: Muffins (carbohydrates)		Level 1 Certificate Practical Horticulture Understanding organic horticulture Know the difference between organic and conventional growing systems, Know organic soil management techniques, Be able to carry out organic soil management techniques & Be able to protect crops using organic techniques & Be able to protect crops using organic techniques Cultivate land by single digging or forking Know how to cultivate land by single digging or forking & Be able to cultivate land by single digging or forking Assessment: unit worksheets with unit test. Oral, visual, functional, measurements. Skills: Organic horticulture refers to the art and science of growing vegetables, flowers and fruits by following the various principles of organic gardening that constitutes soil conservation and soil building, pest control and pest management GCSE Design & Technology In addition to the core technical principles, all students should develop an in-depth knowledge and understanding of the following specialist technical principles:	Level 1 Certificate Practical Horticulture Principles of identifying the presence of, and controlling common pests and diseases • Know how to identify common pests and diseases, Know how to control common pests and diseases & Know how to work safely Plant selection • Know the characteristics of plants, Be able to select plants for specific uses and locations & Understand the establishment and maintenance needs of plants Assessment: unit worksheets with unit test. Oral, visual, functional, measurements. Skills: To control weeds and pests. Know how to identify and report the presence of pests, diseases and disorders. How it can spread and what kind of damage it causes. GCSE Design & Technology • Controlled Assessment 4.4.4.4 Section D: Developing design ideas (20 marks) Students will develop and refine design ideas. This may include, formal and informal 2D/3D drawing including CAD, systems and schematic diagrams, models and schedules. Students will develop
	SPRING	Paper & Boards(MH) or Timbers (JB) stock forms, types and sizes Sources & Origins Working with Timbers or Paper & Boards Specialist Techniques and Processes Surface Treatments and Finishes. Links to: Life cycle assessment and recycling ie the basic principles in carrying out a life cycle assessment of a material. How physical and working properties are selected related and used in commercial products when designing and making. Calculation of material quantities and sizes. Calculate surface area and volume eg material requirements for a specific use. Efficient material use, pattern spacing, nesting and minimising waste. Scaling of drawings, working to datums. Material quantities required. Extracting information on tolerances and using it to control quality and make a prototype. Surface treatments to inhibit corrosion and oxidation. Assessment: Paper & Boards(MH) or Timbers (JB) Assessment Test Paper – 1 hour	at least one model, however marks will be awarded for the suitability of the model(s) and not the quantity produced. Students will also select suitable materials and components communicating their decisions throughout the development process. Students are encouraged to reflect on their developed ideas by looking at their requirements; including how their designs meet the design specification. Part of this work will then feed into the development of a manufacturing specification providing sufficient accurate information for third party manufacture, using a range of appropriate methods, such as measured drawings, control programs, circuit diagrams, patterns, cutting or parts lists. 4.4.4.5 Section E: Realising design ideas (20 marks) Students will work with a range of appropriate materials/components to produce prototypes that are accurate and within close tolerances. This will involve using specialist tools and equipment, which may include hand tools, machines or CAM/CNC. The prototypes will be constructed through a range of techniques, which may involve shaping, fabrication, construction and assembly. The prototypes will have suitable finish with functional and aesthetic qualities, where appropriate. Students will be awarded marks for the quality of their prototype(s) and how it addresses the design brief and design specification based on a contextual challenge. Links to: Expression in decimal and standard form eg calculation of required materials. Calculate surface area and volume eg material requirements. Angular measures eg measurement and marking out. SI units eg measurement of materials and components using standard units as appropriate. The use of reference datum points and coordinates. Use angular measures eg tessellation of component parts. Calculating material area eg working out the quantity of materials requiremed. SI units eg accurate use of appropriate units of measurement to calculate material requirements. Corrosion and oxidation eg how corrosion and/or oxidation affects different materials, ho

3.6: Food provenance – visit to the patch. Cereals: Wheat, Maize, Barley, Rye and other grains. Primary and secondary processing. Costings: Break down the cost of the 2 dishes. H/W Bring ingredients to make a secondary processed product. 3.6.1.3 – sustainability of food: climate change, global warming, Planning: Produce a timeplan for the 2 dishes. sustainability, food waste. Produce a PPT. 3.6.2.2 - Technological developments: fortification, modified foods Finishing techniques:Research ways of presenting the 2 dishes in an exciting, colourful and professional way. with health benefits and the efficiency of these. Sensory analysis of products. Make: Trial their 2 dishes and evaluate them. Practical: Using a primary processed products to make a secondary Spring 2 processed product. Flour to make bread. (\$1,4,6,7,10,11) Revision cards, games and experiments. Spring 2 **NEA2** Practical examination 3.6.1.1 Food Sources Eggs: Choice available Finalise coursework. Egg structure Function of eggs: aeration, binding, glazing. Maillard reaction. 3.3.2 Protein coagulation, foam formation. H/W Bring roulade ingredients. NEA2 Mock: Street Food: Plan and prepare a meal that would be suitable. Whisking eggs to produce a gas in liquid foam – whisked sponge (roulade). (S1,4,5,6,7, 11) Covid update: This class did already in Year 9 – reminder of this: Setting of eggs in quiche. (S1, 4, 6, 7, 12) Level 1 Certificate Motor Vehicle Studies (Motorcycle pathway) Yr7 Steady Hand Game: Yr8 Thermometer Clock: Yr9 Lighting: Level 1 Certificate Motor Vehicle Studies (Motorcycle pathway) **Braking Systems** Vehicle wheel & tyre systems This project speaks for itself. Students The aim of this project is to study This Project is aimed at bringing • Tyre sidewall markings, speed index, remove & refit tyres, valves, The main components of a braking systems, hydraulic will be learning about Health and control and how we can program together a host of prior experiences, tube & tubeless, run flat wheel and tyres, pressure monitoring operation Safety in the workshop, working with microcontrollers to control inputs, knowledge and processes and will be systems. multi materials such as metals and process information and instruct the ultimate opportunity for students Assessment: unit worksheets with unit test Vehicle body & Interior cleaner plastics, and also basic electronics and output information. We will be to display their ideas and skills in the Oral, visual, functional, measurements. • Why valet – road safety, resale value, fuel consumption, CNC machining. Students will also be looking at how we can develop realisation of an individually designed, Preparing to valet, carrying out a valet service, selecting and using structures using flowcharts and then going through the design process, developed and crafted product. cleaning materials. including modelling and testing. convert these into a form of The premise of the project is for Skills: identify the relevant information sources. State the basic programming language, downloading Design considerations and students to design and manufacture a operation and purpose. Assessment: unit worksheets with unit test our own developed programs to generating design specifications Product that has lighting as its focus. Identify codes and grades of brake fluid. Oral, visual, functional, measurements. control a thermometer. We will then Individuals must identify a unique Basic components and develop creative solutions and the "need"/ user group or situation that MARCH - JULY identification Skills: correctly use tools and equipment. Identify wheel and tyre types and use of skills learnt to develop a 3 will inform their design intention. Making a PCB Dimensional clock for a chosen client Furthermore the lighting project will Circuit diagrams market and user group environment. enable students to choose, combine **Level 1 Certificate Practical Horticulture Level 1 Certificate Practical Horticulture** Resistor colour codes Working to scale, templating, and utilise materials and processes Cultivate land by single digging or forking Prepare soil and apply organic mulch CAD (Crocodile clips/2D design) modelling and mathematical appropriate to their design idea in Know how to cultivate land by single digging or forking & Know how to prepare soil and apply organic mulch & Be able to Soldering techniques and calculations to prepare for the GCSE order to realise the highest quality Be able to cultivate land by single digging or forking prepare soil and apply organic mulch maths content at KS4. components practical outcome possible. Introduction to garden design Determine soil PH with colour indicator test kit under supervision Flowcharts Cold forming simple metal Identifying a need Know how to determine soil pH with colour indicator kit Know the principle styles of garden design & Be able to produce a components Microcontrollers Research skills & Be able to determine soil pH with colour indicator kit simple design for a garden Critical review and evaluation • Design and development of ideas. Design and development of under supervision Assessment: unit worksheets with unit test. Oral, visual, functional, • PIC programing using PICAXE Editor ideas.

Modelling 2D / 3D

lighting circuit.

materials

Low voltage lighting

electronics / components.

Manufacturing and testing a

Working and finishing mixed

Assessment:

assessment.

Food

30 minute Formal Assessment and

summative booklet and practical

• Input, Process, Output

Resisters

• Potential Dividers

• Sub routines and main programs

• Basic electronics inc LED's and

GCSE Food Preparation & Nutrition

Assessment: unit worksheets with unit test.

strips. Oral, visual, functional, measurements.

Skills: Mark out a rectangular plot, mentally divide it into two

Oral, visual, functional, measurements.

Sprina 1

3.6.1.1 Food Sources

GCSE Food Preparation & Nutrition

3.5: Factors affecting food choice

Sprina 1

measurements.

Skills: Focusing upon the fundamental practical skills in horticulture. The

skills to understand and how to improve the soil.

In Year 7 the students learn about hygiene and safety in the kitchen, tools and equipment.

- 3.2.1.1 Protein: Why we need it, where found. LBV & HBVs. **H/W Burger ingredients.**
- 3.2.1.1/3.6.1.2 Alternative proteins:
 Quorn: what it is, how its made and the nutritional and environmental advantages.
- 3.2.3.3/ 3.5.3 Sensory analysis: Quorn v
- 3.2.1.1 Vegetarians & Vegans, Kahoot quiz. Design a Vegetarian dish. H/W Bring ingredients for yegetarian or vegan meal.
- 3.2.1.2 Fats & Oils Function and the affect on the environment.
- 3.2.3.3 / 3.5.3 Sensory Testing: Healthy v Unhealthy.
- 3.6.1.1 Responsible farming & schemes. Visit to the Patch. Design a poster. **H/W** Bring £1 for Crumble ingredients.

Practical:

- S1, S4, S7 Homemade burgers Protein
- S1, S4, S7, S11 Cheese Scones Alternative protein
- S1, S4, S6, S7 Fruit Crumble Tinned fruit

Assessment:

30 minute Formal Assessment and summative booklet and practical assessment.

- Kit form Design and generating design specification
- Assembly of clock modules
- Practical Geometry
- Mixed Materials and adhesives
- CAD (2D design)
- Assemblies from flat pack
- Mounting systems
- Critical review and evaluation
- Maths in D&T

Assessment:

30 minute Formal Assessment and summative booklet and practical assessment.

Food

In Year 8 students learn about a healthy lifestyle through the Eat well plate and hydration.

- 3.2.3.1 How food impacts our heath good mood food, exam stress. Group task producing a list of Foods that Harm, Foods that Heal. H/W Make a dish that contains foods that heal.
 3.2.2.3 Hydration and the role that water plays on our bodies, in particular the digestive system and the affects of dehydration. Kahoot quiz.
- 3.6.1.2 Seasonality of Food and the benefits of eating foods when they are in season. Visit to the Patch. H/W Savoury plait ingredients using a seasonal vegetable.
- 3.6.1.1 Responsible Farming and the effects that the food industry has on the environment, and what is being done in the UK to help.
- 3.2.3.1 The impact of a poor diet diet related illnesses and eating disorders.
- 3.2.3.2 Energy needs PAL, BMR, calories and consequences on an imbalance. H/W Free choice practical ingredients.

Practical:

Various skills — A dish that contains foods that contain antioxidants to heal the body.

S1, S2, S3, S4, S6, S7, S10 – A seasonally inspired pastry plait (ready made pastry).

Various skills - A dish of their choice showcasing what they have learnt this term (Final practical in KS3).

Assessment:

30 minute Formal Assessment and summative booklet and practical assessment.

- Product assembly
- Product testing.
- Critical 3rd party / self evaluation

Assessment:

30 minute Formal Assessment and summative booklet and practical assessment.

Food

The food course in year 9 builds upon studen'ts prior skills and experiences gained in key stage 3. Modules on food storage / safety and practical sessions based on world inspired foods are the cornerstone to this year's foci.

- Nutrition revisited
- Italian food
- Foods for teens.
- A history of food in schools.
- Norse competition.
- Food standards agency
- Menus

GCSE Design & Technology

Prepare for Controlled assessment task to start on 1st June.

- Controlled Assessment
- 4.4.4.1 Section A: Identifying and investigating design possibilities (10 marks) By analysing the contextual challenge students will identify design possibilities, investigate client needs and wants and factors including economic and social challenges. Students should also use the work of others (past and/or present) to help them form ideas. Research should be concise and relate to their contextual challenge. Students are also advised to use a range of research techniques (primary/secondary) in order to draw accurate conclusions. Students should be encouraged to investigate throughout their project to help inform decisions.

Links to: Analysing responses to user questionnaires.
Frequency tables and information on design decisions.
Presentation of client survey responses. Percentiles ranges used in anthropometrics and/or ergonomics. Comparative chart of performance criteria as for existing products to help evaluate them.

Assessment

Formal NEA Assessment - Section A

GCSE Food Preparation & Nutrition

GCSE Design & Technology

Controlled Assessment

analysis of the prototype(s).

Assessment:

Exams

Final NEA submission

Final Revision and Exam Preparation

4.4.4.6 Section F: Analysing and evaluating (20 marks) Within this iterative design

process students are expected to continuously analyse and evaluate their work,

requirements, analysing the design brief and specifications along with the testing

and evaluating of ideas produced during the generation and development stages.

evaluation will be formulated. This should include market testing and a detailed

Their final prototype(s) will also undergo a range of tests on which the final

using their decisions to improve outcomes. This should include defining

Final Revision and Exam Preparation Exams

GCSE Food Preparation & Nutrition Summer 1

3.5.1.3: How labelling & marketing influences choice. Labelling by law & non-mandatory information.

Nutritional information.

Marketing - BOGOF, media, POS.

3.6.1.2 Environmental issues regarding packaging.

Design your own food product packaging.

3.2.2 Minerals: Calcium, Iron, Sodium, Flouride, Iodine, Phosphorous

3.6.2.1 Milk: Nutritional composition and function.

Milk: Types, processing Pasteurised, sterilised, UHT, secondary processing – cheese, yoghurt. Sensory testing. H/W Bring ingredients for an iron=rich dish.

Practicals – make a high iron dish Make butter. (S1)

Summer 2

Fish:

SUMMER

Varieties: White, Oily. Nutritional composition.

Sustainability

What to look for when purchasing fish.

3.4.2.2 Storage, preparation, cooking.

 $3.6.1.2\ Sustainability.$

3.3.2.5 Raising agents – physical, chemical, biological. Co2

Production and chemical reactions.

H/W Bread

Choux pastry – then whipped cream (2 lessons)

Muffins

Practicals: Fish cakes, fish pie (\$1,2,4,5,6,7)

Bread making, whipped cream, choux pastry, muffins.(S11)

Level 1 Certificate Motor Vehicle Studies (Motorcycle pathway)

Level 1 Certificate Motor Vehicle Studies (Motorcycle pathwa Vehicle Electrical Systems

 Battery, fuses, wiring, switches, relays, motors, alternators, lighting components, removing and replacing electrical system components, soldering a terminal

Assessment: unit worksheets with unit test Oral, visual, functional, measurements.

Skills: examine electrical systems. Demonstrate basic removal, repair and fitting techniques.

Level 1 Certificate Motor Vehicle Studies (Motorcycle pathway)

Course Finish – Revision for Other subjects

	Level 1 Certificate Practical Horticulture Identifying weeds • Know weed species • Principles of identifying the presence of, and control common pests and diseases • Know how to identify common pests and diseases, K how to control common pests and diseases & Know to work safely	ow
	Links to:	
	Assessment: unit worksheets with unit test. Oral, visual, functional, measurements.	
	Skills: The first element is about recognizing the presence of common pests and diseases within the cropping area. Pests wi include insects, for example. Diseases may be fungal, viral or bacterial.	