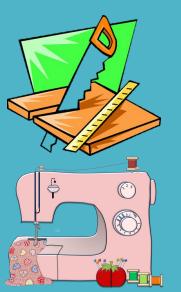


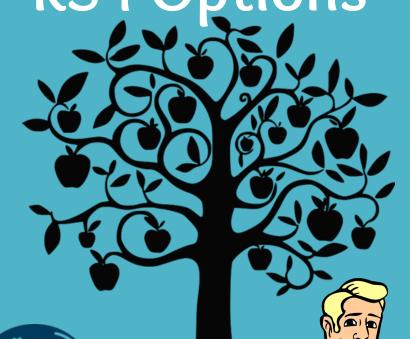
Welcome to the Design and Technology Department



Design & Technology

Edexcel
GCSE Design &
Technology

Technical Award in Engineering Level 2 Vcert **KS4 Options**



Food Technology

GCSE Food
Preparation &
Nutrition

OR

WJEC Hospitality & Catering level 1/2

Design and Technology Department

Design & Technology



Food Technology

Miss Smith
Mr Neilson
&
Mr Rothwell
(Technician)



Ms Crane **Mrs Combey** Mrs Featherstone (Technician)

Edexcel GCSE

Design & Technology

Course overview

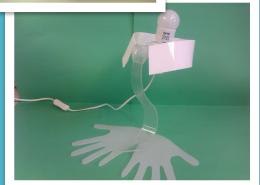
- Project based working with polymers.
- ► Time will be spent in the computer room and Design Studio.
- Design based course where students must be independent, creative and interested in making and design.
- ► 50 % Non-exam assessment (NEA) internal coursework project where students specialise in designing and making a product.
- ► 50 % Written external exam based on core technical principles (40 marks) and specialist material knowledge (60marks).
- Leads on to further study courses at college and university or working in industry.
- ► It gives students an opportunity to identify and solve problems by designing and making products for the modern world.
- ► It prepares students to communicate confidently and successfully giving them a firm foundation for the world of work.
- ► All materials are provided for a contribution of £25 per year

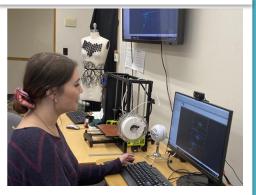














Edexcel GCSE

Design & Technology

Curriculum breakdown

Year 10

Skill building projects – working with polymers

Photo opportunity – Marking, cutting and bending A passion for chocolate – Melting and moulding.

The 3rd dimension – CAD drawing and 3D printing.

- o Mock NEA Design and make project.
- Theory content delivered through practical skill building projects with exam question practice.
- Launch NEA



Year 11

- o Continue with NEA- Term 4 hand in.
- o Revision of theory topics Final GCSE
- o Final exam 1hour 45mins



NCFE Level 2 Vcert Technical Award Engineering

Course overview

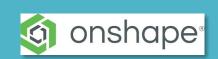






You will study

- Engineering disciplines,
- science and mathematics
- engineering drawings,
- engineering materials
- engineering applications,
- engineering tools, equipment and machines





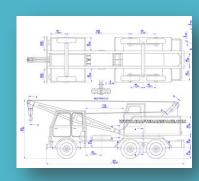






- This is a subject where students must be independent, have pride in their work and be willing to learn new skills to succeed.
- ► 40 % Written external exam on theory information relating to engineering terms and the world of engineering, math, science and technology.
- ▶ 60% internal teacher assessed coursework task involving a design brief to produce a product with evidence; CAD and hand-drafted engineering drawings of your product, evidence of materials and of choice of tools and equipment, tools and machinery testing, a production plan, a learning log and an evaluation of the project.
- This course leads on to further practical study such as college and apprenticeships in the world of engineering and industry.
 - A 'Level 2 Pass' is the equivalent of a GCSE grade 4.





NCFE Level 2 Vcert Technical Award in Engineering Curriculum overview breakdown







Year 10 – Term 1

- Course introduction and assessment overview.
 Workshop H&S
- Coursework Materials, CAD engineering drawing, Materials, Tools and Justification, "Practical Progress Log", Gantt Charts, Flowcharts. Engineering drawing by hand Drawing conventions, British standard BS8888, Materials and their properties –Timbers, Metal, Polymers and Smart Materials. Analyse and Evaluate knowledge & understanding.
- Exam prep Engineering disciplines, Health & safety –
 H&S at work act, PPE, RIDDOR manual handling regulations, COSHH.
- Practical Tasks Wood Project: measure, mark, cut shape, process, assemble and finish made products.
- This year we make a small cabinet to practice use of tools and accuracy, learning how to draw and read technical drawings

Term 2

- Exam prep revision on all key topics covered, Practice exam questions and feedback.
- Coursework Flowchart, Production Plan, "Practical Progress Log",
 Evaluation
- Practical Metal project, we make a simple coat hook, to help learn essential skills and knowledge. measure, mark, cut shape, process, assemble and finish made product.

Term 3

- Exam prep Engineering disciplines Health & safety H&S at work act, PPE manual handling regs, COSHH RIDDOR Drawing conventions
- Coursework Materials & Testing Engineering drawing Materials, Tools and Justification – "Practical Progress Log"
- Practical Plastics Project measure, mark, cut shape, process, assemble and finish made product.
- **Exam Prep** Drawing conventions
- Summer revision packs to be handed out and explained
- Coursework Engineering drawing "Practical Progress Log" Production Plan Flow Chart, Evaluation

NCFE Level 2 Vcert Technical Award Engineering Final Year Course breakdown

Year 11 - Term 1

- September Unit 2 Practical- Synoptic Assessment task (set by NCFE)
- 20 official hours allowance
- Exam prep ready for November Mock exams—
- November Mock exams for Unit 1 understanding the engineering world.
- Coursework Research Task, Materials and Tools
 Equipment selection and justification, CAD and Hand drawn
 Technical Drawings, Planning, (Gannt or Flow Chart)
 Manufacturing, Project Evaluation



















NCFE Level 2 Vcert Technical Award Engineering Final Year Course breakdown

Year 11 - Term 2

- Practical Continue Synoptic Assessment task set by NCFE (practical log)
- Coursework Evaluation
- Mark Project and submit to the NCFE Moderator.



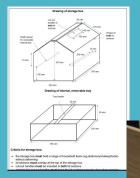




Year 11 - Term 3

Exam prep – revision on all key topics covered, Practice exam questions and feedback., ready for final exam May/June 2024









End of Year 11 Summer Exam for Unit 1

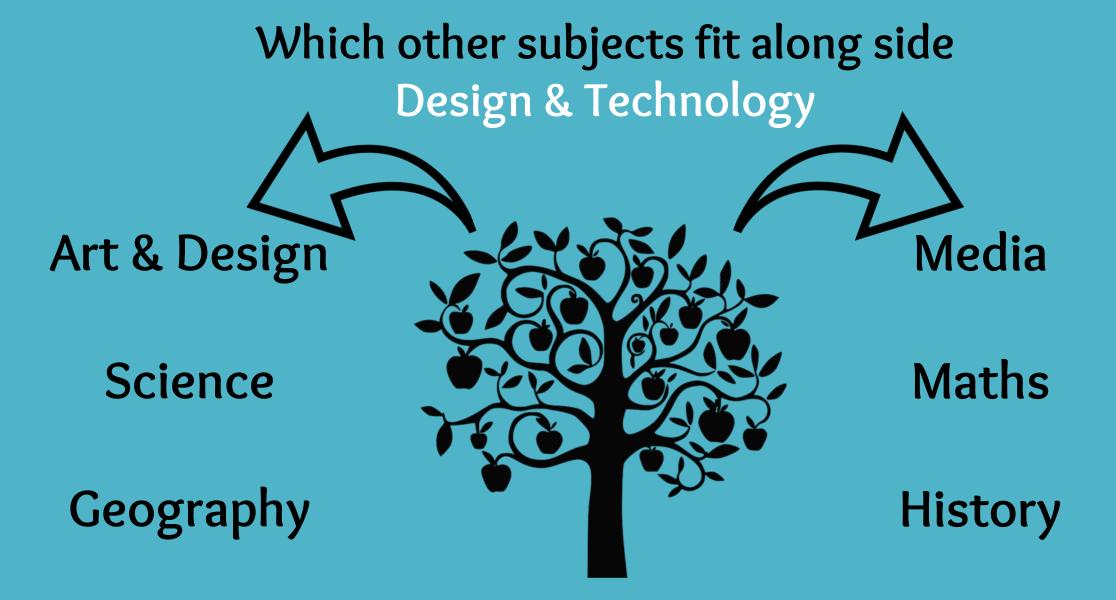


Progression opportunities

Depending on the grade the learner achieves in this qualification, they could progress to:

- A Level in Design Technology or Physics
- Level 2 Technical Certificate in Engineering
- Level 3 Applied General in Engineering
- Level 3 Technical Level in Engineering
- An apprenticeship sector such as Aerospace Engineer or an Electrical/Electronic Support Engineer or Engineer





Computer Science

Business studies



Design and Technology CAREERS

Retail

Window dresser

Shoe designer

Fashion buyer technician

an

Aerospace Engineer

Computing Engineer

Telecommunications

Engineer

Surveyor

Teacher

Sign writer

Electrician

Furniture maker/designer

TV/Film Producer

Builder

Lighting technician

Costume designer

Carpenter

Fashion designer

Artist

Animator

Textiles designer

Architect

Product designer

Pattern cutter

Set designer

Photographer

Civil Engineer

Interior designer

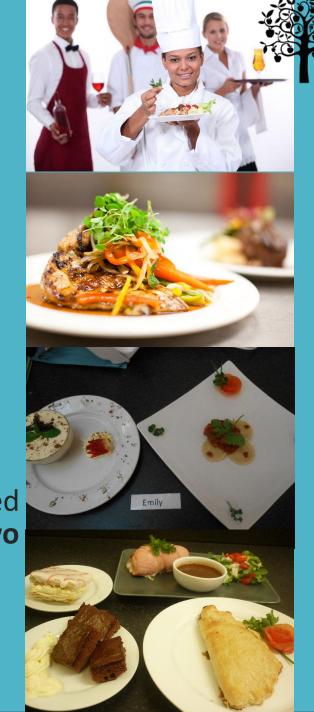
Graphic designer Industrial design



WJEC level 1/2 Hospitality and Catering

Course overview

- Practical based subject using ingredients in the food room.
- For students who are interested in food preparation in a commercial catering environment
- A subject where students must be independent, and interested in cooking and learning to cook like a chef.
- YOU MUST BRING INGREDIENTS FOR EVERY PRACTICAL LESSON
- 40 % Written external exam on theory information taught in Y10 relating to food and catering.
- ► 60% internal CA coursework involves researching and analysing a task to recommend two dishes, one for each of the customers named in the brief. Produce a production plan and prepare and cook the two dishes in 3Hrs. Evaluate and review the dishes and review your own performance
 - Level 2 pass equivalent to GCSE grade 4



WJEC level 1/2 Hospitality and Catering

Curriculum overview



Year 10

Unit 1

Exam content 40%

Autumn 1&2

- LO3 Understanding how hospitality and catering provision meets health and safety needs
- LO4 Know how food can cause ill health.

Spring 1

- LO1 Understanding the environment in which hospitality and catering providers operate
- LO2 Understanding how hospitality and catering provision operates.

Spring 2

 LO5 Be able to propose a hospitality and catering provision to meet specific requirements.

Year 10

Summer 1&2

- LO1 Understanding the importance of nutrition and planning menus
- LO2 Understanding menu planning
- LO3 Able to cook dishes
- Revision for year 10 mock exam.

WJEC level 1/2 Hospitality and Catering Curriculum final year breakdown



Year 11

Term 1 Unit 2 Controlled assessment Coursework 60% Internal assessment brief.

analyse the assignment brief and recommend **two** dishes, **one** for each of the customers named in the brief.

each dish may be either a starter, a main course or a dessert and each dish should include any appropriate accompaniments.

produce a production plan to show how the practical preparation, cooking, and presentation will be completed within the allocated time.

complete the preparation and cooking of the two dishes.

evaluate and review the dishes.

review your own performance.

Mock exam

Year 11

Term 2

Finish Unit 2 and complete 3H practical exam

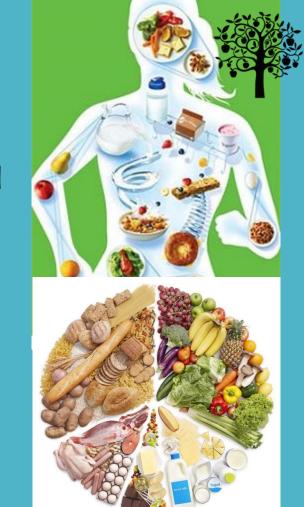
Term 3

- Exam preparation
- Past papers
- Revision cards



GCSE Eduqas Food Preparation and Nutrition Course overview

- Practical based subject gives you the opportunity to develop and enhance **practical skills** and theoretical knowledge in **food science and nutrition**.
- ► Learn how to prepare and cook dishes the professional way.
- ► You must be **organised**, **hardworking** and able to **work in a team**.
- ► YOU MUST BRING INGREDIENTS FOR EVERY PRACTICAL LESSON
- ► 50 % Controlled Assessment
 - Assessment 1: The Food science Investigation 15%
 - Assessment 2: The Food Preparation Assessment 35% including 3 hour practical exam
- ▶ 50 % Written external exam on theory of food science and nutrition
- ► Leads on to further study courses at college and university so aimed at more academic students (Set 1 & 2 for English)





GCSE Eduqas Food Preparation and Nutrition Curriculum overview breakdown



Year 10

50 % Written theory of food science and nutrition

Autumn 1

- Food hygiene and safety
- Food spoilage
- Principles of nutrition
- Diet and good health

Autumn 2

- The science of cooking food
- Food provenance and food waste
- Cultures and cuisine

Spring 1

- Technological developments
- Factors that affect food choice
- Basic mixtures and food science experiments

Year 10

Spring 2

Food commodities

- Fruit and vegetables
- Cereals
- Dairy

Summer 1

Food commodities

- Meat, fish, eggs
- Alternative proteins
- Fats and sugars

Summer 2

- NEA practice practical exam
- Core knowledge
- Revision

GCSE Eduqas Food Preparation and Nutrition Final year curriculum breakdown



Year 11

Autumn 1 NEA 1

Food investigation assessment (8 hours CA)

Autumn 2

NEA 2

- Food preparation controlled assessment (12 hours CA)
- Mock exam

Spring 1 Finish NEA2

- Food preparation assessment
- 3 hour practical exam

Year 11

Spring 2

- Revision
- Core Mock 2

Summer 1 & 2

- Revision
- Exam



What practical lessons will you do?

YOU will need to bring ingredients as EVERY practical will be assessed as part

of your coursework.

- Cutting skills carrot
- Minestrone soup and bread
- Cauliflower au gratin
- Pineapple upside down cake
- Chocolate fudge cake
- Quiche
- Christmas cake





We will provide basic ingredients and ask for £30 per year to cover this cost.

- Chicken casserole (boning a full chicken)
- Fish goujons (filleting a whole fish)
- Cheese and onion pasty (puff pastry)
- Profiteroles
- Lasagne (H/M pasta)
- Bakewell tart
- Decorated chocolate mousse
- Chelsea buns
- Plan and run cake sale





Choose Food Prep or Catering?



Both subjects do the same amount of practical making and the same practical skill building so you CANNOT study both YOU MUST BE PREPARED TO BRING INGREDIENTS

GCSE Food preparation and nutrition

- ► Looks at the food nutrition in detail.
- ► Is science based 50% coursework
- ► Requires independence and more academic.
- ► Cook at least every other week.
- More choice in making.
- Must want to cook and be prepared to bring ingredients
- ▶ 3 hour practical exam
- ► 50% external exam

WJEC hospitality and catering level 1/2

- ► Looks at the hospitality industry.
- ► Is portfolio practical based -
- ► 60% written coursework
- ► Taught to cook like a chef.
- Cook at least every other week.
- ► Told what making to learn necessary skills.
- Must be able to cook and have some skill and be prepared to bring ingredients
- ▶ 3 hour practical exam
- ▶ 40% external exam



Food buyer

Retail

Pastry chef

Chef/pastry chef

Home Economist

Hotel manager

Waiter

Barista

Cook



Teacher

Nutritionist

Cake maker

Concierge

Banquet manager

Baker

Food Technician

Catering manager

Bartender

Counter staff

Food designer

Armed forces chef

Maitre'D

Events manager

Food service director

General manager

Wine waiter

Questions?

If you have any questions contact the team on Rachel.crane@wernethschool.com

Janine.smith@wernethschool.com

Trudi.combey@wernethschool.com

Giles.neilson@wernethschool.com



Further information on course specifications can also be found at:

https://qualifications.pearson.com/

www.eduqas.co.uk/qualifications/food-preparation-and-nutrition-gcse/

www.wjec.co.uk/qualifications/hospitality-and-catering-level-1-2/

Design and Technology teachers plant the seeds of knowledge that last a life time