



Calder High School Sixth Form
in collaboration with Todmorden High School

C O U R S E S
B O O K L E T

2012-13

Calder High School
“A Specialist Technology College & Training School”



Contents

	<i>Page no.</i>
General Entrance Requirements.....	3
 Level 3 courses	
Applied Science (Forensic Science) (BTEC Level 3 Certificate).....	4
Art and Design.....	5
Art and Design Graphics.....	6
Biology.....	7
Business (BTEC Level 3 Certificate or Diploma).....	8
Chemistry.....	9
Dance.....	10
Drama and Theatre Studies.....	11
Economics.....	12
English Language.....	13
English Literature.....	14
English Language and Literature.....	15
Film Studies.....	16
French.....	17
Geography.....	18
Geology.....	19
Health and Social Care (BTEC Level 3 Certificate or Diploma).....	20
History.....	21
Hospitality (BTEC Level 3 Certificate).....	22
ICT (AS/A2).....	23
ICT (BTEC Level 3 Certificate).....	24
Law.....	25
Mathematics.....	26
Mathematics (Further).....	27
Media Studies.....	28
Photography.....	29
Physical Education (BTEC Level 3 Certificate).....	30
Physics.....	31
Product Design.....	32
Psychology.....	33
Religious Studies, Philosophy and Ethics.....	34
Sociology.....	35
Spanish.....	36
Textiles.....	37
 Level 2 courses	
Agriculture\ (BTEC Extended Certificate).....	39
Art GCSE.....	40
Business (BTEC Extended Certificate).....	41
English Language (GCSE).....	42
ICT (BTEC First Certificate).....	43
Mathematics (GCSE).....	44



General Entrance Requirements

For the academic year 2012–13, students can be enrolled on to Routes A, B or C and the following levels of achievement are required.

Route A is the study of 3 or 4 Level 3 A Level courses and/or BTEC Level 3 Certificates (equivalent to 1 A Level).

The criteria for entry to Route A is a minimum of 5 A*-C grades at GCSE.

Students must also fulfil any additional specific requirements included on the course outlines for individual subjects.

Route B is the study of a Level 3 BTEC Subsidiary Diploma in Year 12 (equivalent to 1 A Level) and a Level 3 BTEC Diploma in Year 13 (equivalent to 2 A Levels), with the opportunity of studying a Level 3 A Level course and/or GCSE Mathematics

The criteria for entry to Route B is a minimum of 3 A*-C grades at GCSE including GCSE English at a minimum of Grade C.

Students must also fulfil any additional specific requirements included on the course outlines for individual subjects.

Route C is the study of the Level 2 BTEC Extended Certificate in Business at Calder High or Agriculture at Todmorden High (equivalent to 2 GCSEs).

The course is also combined with the ICT BTEC First Certificate and, where required, GCSE English and Mathematics.

The criteria for entry to Route C is a minimum of 5 A*-E grades at GCSE.

Route C provides students with the opportunity of attaining the equivalent of the national benchmark figure of 5 A*-C grades at GCSE. Attaining this will allow students to proceed to Level 3 courses. Students will be in school from Tuesday to Friday and have the opportunity to arrange their own work experience on Mondays.



Applied Science (Forensic Science) (BTEC Level 3 Certificate)

Exam Board
EDEXCEL

Outline of Modules

Each unit consists entirely of coursework

Core Units

- **Fundamentals of science**
Students study aspects of chemistry (periodic table), biology (cells) and physics. (energy and electricity)
- **Scientific practical techniques**
This is largely a chemistry unit looking at estimating purity of compounds
- **Working in the science industry**
This unit looks at all the processes and procedures that take place in workplace laboratories

Specialist Units

- **Application of number for science technicians**
Students learn to carry out mathematical procedures which are used in a practical laboratory situation
- **Chemical Laboratory Techniques**
This is largely a chemistry unit studying organic and inorganic chemistry
- **Forensic evidence collection and analysis**
Students learn techniques used to collect forensic evidence and work on a simulated crime scene

Criteria for Entry

- A GCSE Grade C or above in either single award or applied science and a C in Mathematics
- High Motivation with an aptitude for problem solving and decision making

Higher Education and Career Opportunities

Higher Education

- Forensic Science related degree
- Biology or Chemistry related degrees
- Top up to a BTEC diploma where available

Employment

- Forensic science
- Chemistry or Biology based
- Research
- Nursing
- Hospital Work



Art and Design

Exam Board

AQA

Endorsements Covered:

Fine Art - working with 2D media/materials in drawing, painting, printing and supported by photography.

3D design – sculpture/modelling/installation – using a range of materials and techniques such as: glass, wood, metal, plastics, clay, other mixed media.

Graphic design – traditional and computer generated art/graphics for advertising and illustration, supported by printmaking and photography.

Outline of Modules

AS

Unit 1 Portfolio - 1 unit to be assessed as a major project, the unit explores 2D & 3D media and materials whilst covering a range of areas of study in response to selected theme/s. The emphasis is on experimentation; students try out ideas in a wide range of materials and using a broad range of techniques. The unit is divided into smaller project areas including: Painting and Drawing, Mixed Media, Glass Design, Ceramics/Sculpture.

Unit 2 Externally set unit - Preliminary research leads to a final piece or pieces in response to an externally set question paper. During this time students have 5 hours in exam conditions where they can develop ideas for final designs. Students are expected to build on the skills taught in unit 1.

Both units incorporate sketch book work in the form of drawing, mixed media, printmaking, photography and computer generated imagery. Three dimensional works will incorporate the use of model-making, sculptures and/or installations.

A2

Unit 3 Portfolio - This is a primarily a practical unit with written elements; students are expected to develop a personal investigation based on an idea, issue, concept or theme leading to finished piece or pieces. Students still need to experiment with different materials and processes whilst being directed to areas of study of strength at AS.

Unit 4 - Preliminary research leads to a final piece or pieces in response to an externally set question paper. Students will be expected to build on the skills acquired in unit 3. At the end of this unit there is a practical controlled test that takes 15 hours over three days.

Criteria for Entry

- A GCSE Grade C or above in Art, BTEC Design, or Textile Design and English
- Highly motivated creative & imaginative students with an aptitude for problem solving and design.

Higher Education

Students can choose from an extensive range of creative courses including Art and Design, Fine Art, 3D design – including model making, stage design, sculpture, Graphics, illustration, etc

Employment

Professional Creative Industries



Art & Design Graphics

Exam board

AQA

Specification outline

AS

Set by school, this provides opportunities to learn skills and understand the assessment objectives

The work will involve:

- Researching and analysing artists' work
- Experimenting with different ideas and media
- Making observations from various sources and recording in a range of media
- Developing your own response and personal outcome

This work will use a wide range of graphic design skills including advanced Photoshop

Students will be expected to undertake independent learning and keep a sketchbook

A2

Two units of practical work and a personal written study of a 1000 words

Unit 3 : Set by school, the unit is mainly practical with a personal written study to support it.

Unit 4 : Set by AQA this is the culmination of all that has been learnt. The personal outcome is conducted over 15 hours of supervised time and school and students are justifiably proud of the work produced.

Entry requirements

Arts subject at C grade or above. English GCSE C.

Higher Education and career opportunities

Higher Education

You can use this qualification for entry to degree courses in graphic design, advertising, or marketing. The study of art offers a vast array of opportunities, from the study of traditional elements to the study of cutting edge and contemporary works.

Employment

The skills learnt will be applicable in all art based industries.



Biology

Exam Board
OCR

Outline of Modules

AS

Cells, Exchange & Transport: Cell structure and function and exchange and transport across membranes

Molecules, Biodiversity, Food & Health: Biological molecules, enzymes, Biodiversity, classification, variation and human interactions

Practical Skills in Biology: Coursework unit involving internal assessment of coursework skills

A2

Communication, Homeostasis & Energy: Photosynthesis, respiration, homeostasis, nerves and communication

Control, Genomes & the Environment: Cellular control, biotechnology ecosystems and sustainability

Practical Skills in Biology: Coursework unit involving internal assessment of coursework skills

Criteria for Entry

- B in core Science (Higher Tier) *and* B in Additional Science (Higher Tier) not Additional Applied or Dual Award Applied Science
- OR B in GCSE Biology (Higher Tier)
- B in GCSE Mathematics is desirable
- High motivation with an aptitude for problem solving & decision making

Higher Education and Career Opportunities

Higher Education

- Biology
- Biomedical sciences
- Genetics

Employment

- Nursing
- Veterinary/Veterinary Nurse
- Medicine
- Ecology



Business

(BTEC Level 3 Certificate, Subsidiary Diploma or Diploma)

The Certificate is the equivalent of 1 AS Level

The Subsidiary Diploma is the equivalent of 1 A Level

The Diploma is the equivalent of 2 A Levels

Exam Board

EDEXCEL

Outline of Modules

This qualification focuses on particular aspects of employment within the Business sector. The BTEC National Certificate, Advanced Subsidiary or Diploma is a qualification which can extend a learner's programme of study and provide vocational emphasis for learners following an Applied GCE or GCE route or a combination of both in their main programme of study. Each unit consists entirely of coursework. A range of units are taught including:

- Unit 1 Business Environment
- Unit 2 Business Resources
- Unit 3 Introduction to Marketing
- Unit 4 Effective People, Communication and Information
- Unit 5 Introduction to Accounting
- Unit 9 Creative Product Promotion

(Units in Year 2 may vary to those published)

Criteria for Entry

- GCSE grade C or above in English
- Ability and enthusiasm to work hard both within and outside of lessons
- Be prepared to work independently and adhere to deadlines

Higher Education and Career Opportunities

Higher Education

- HND in Business or Business/ICT related subject
- Degree in Business or Business/ICT related subjects

Employment

- Retail
- Business Management
- Self-employment



Chemistry

Exam Board

OCR A

Outline of Modules

AS

Unit 1 (15%) Atoms, Bonds and Groups

Unit 2 (25%) Chains, Energy and Resources

Unit 3 (10%) Coursework – practical skills (Qualitative, Quantitative and Evaluative)

A2

Unit 4 (15%) Rings, Polymers and Analysis

Unit 5 (25%) Equilibria, Energetics and Elements

Unit 6 (10%) Coursework practical skills (Qualitative, Quantitative and Evaluative)

Criteria for Entry

- B in core Science (Higher Tier) *and* B in Additional Science (Higher Tier) not Additional Applied or Dual Award Applied Science
- B in GCSE Mathematics

OR

- B in GCSE Chemistry (Higher Tier)
- B in GCSE Mathematics

Higher Education and Career Opportunities

Higher Education

- Chemistry can lead to the study of science at degree level
- Medicine
- Pharmacy
- Veterinary Science
- Chemical Engineering

Employment

- Science based industry
- Medical fields
- Agriculture



Dance

Exam Board

AQA

Outline of Modules

AS

Unit 1 (40%) Written Examination: Understanding dance

Unit 2 (60%) Practical examination: Solo choreography and performance in a duo/trio.

A2

Unit 3 (50%) Written examination: Appreciation: Content and context.

Unit 4 (50%) Practical examination: Group choreography and solo performance.

Criteria for Entry

- Ideally a GCSE Grade C or above in Dance
- High Motivation with an aptitude for problem solving and decision making
- A willingness to attend a variety of live dance performance
- A willingness to participate in extra rehearsals outside of lesson time

Higher Education and Career Opportunities

Higher Education

- Performing Arts related courses
- Arts based courses
- Psychology
- Education
- Media

Employment

- The Arts/Theatre
- Communication
- Inter-personal
- Planning, Problem solving and Decision making
- Research
- Physical and Perceptual
- Dance therapy



Drama and Theatre Studies

Exam Board
EDEXCEL

Outline of Modules

AS

Unit 1 (40%) Exploration of Drama and Theatre – A practical exploration of two contrasting plays. Internally assessed

Unit 2 (60%) Theatre text in performance - A group performance plus either a monologue a duologue performance. Externally assessed

A2

Unit 3 (40%) Exploration of Dramatic Performance - in groups, students must create their own piece of theatre. Internally assessed

Unit 4(60%) Theatre text in Context - written paper. Externally assessed

Criteria for Entry

- A GCSE Grade C or above in both Drama and English or English Literature. (The course contains a significant amount of essay writing)
- High motivation with an aptitude for problem solving and decision making
- A willingness to attend a variety of theatrical performances

Higher Education and Career Opportunities

Higher Education

- Performing Arts related courses
- Arts based courses
- Humanities based courses
- Psychology
- Education
- Media

Employment

- The Arts/Theatre
- Communication
- Inter-personal
- Planning, Problem solving and Decision making
- Research
- Physical and Perceptual



Economics

Exam Board
OCR

Outline of Modules

AS

- Markets in Action
- The National and International Economy

Externally assessed by two exams each of 1hr 30mins

A2

- Transport Economics
- The Global Economy

Externally assessed by two exams each of 2 hrs

Criteria for Entry

- GCSE Maths at Grade B or above
- GCSE English at Grade C or above
- An interest in current affairs/the news/politics
- Interest and willingness to take part in discussion and debate

Higher Education and Career Opportunities

Higher Education

- Economics
- Business
- Politics
- Education
- Humanities

Employment

- Teaching
- The Financial Services Sector eg. banking
- Insurance
- Transport planning
- Marketing



English Language

Exam Board

AQA Specification B

Outline of Modules

AS

Unit 1 Categorising texts: An introduction to language study and frameworks, including the social contexts of Gender, Power and Technology.

Assessed by a two hour examination

60% of AS marks, 30% of total A Level marks

Unit 2 Creating texts: Candidates are required to produce two pieces of original writing for specified audiences and purposes, plus commentaries.

Coursework - 2,500 – 3,500 words in total

40% of AS marks, 20% of total A Level marks

A2

Unit 3 Developing Language: The study of child language acquisition and language change in English.

Assessed by a 2½ hour examination

30% of total A Level marks

Unit 4 Investigating Language: Candidates are required to produce two pieces of work: a language investigation and a media text related to their investigation.

Coursework: 2,500 - 3,500 words in total

20% of total A Level marks

Criteria for Entry

- At least grades C in GCSE English and English Literature, preferably B or above
- A genuine interest in language
- A willingness to meet all homework and course requirements and to contribute to group discussions

Higher Education and Career Opportunities

- A high status qualification which supports a wide range of university courses and careers. Of particular relevance to careers involving communication and investigation eg law, journalism, teaching



English Literature

Exam Board

AQA Specification B

Outline of modules

AS

Unit 1 Aspects of Narrative

Study of two novels, one written after 1990, and two texts from poetry 1800–1945

Assessed by one 2 hour examination requiring comparisons between texts

60% of AS marks, 30% of total A Level marks

Unit 2 Dramatic Genres

Study of two plays, one by Shakespeare, both from the genre of tragedy

Coursework: A piece of work on each play, each piece to be between 1,200–1,500 words

40% of AS marks, 20% of total A Level marks

A2

Unit 3 Texts and Genres

A minimum of three texts to be studied looking at one of two genres: Elements of the Gothic or Elements of the Pastoral

Assessed by one 2 hour examination requiring comparisons between texts

30% of total A Level marks

Unit 4 Further and Independent reading

A minimum of three texts to be studied, one being a pre-release of material containing critical writing on literature

Coursework: Two pieces of work: A comparative piece on texts chosen by the candidate (1500 – 2000 words), and a piece which applies the ideas in the pre-release material to a text(s) of the candidate's choice. (1200–1500 words)

20% of total A Level marks

Criteria for Entry

- At least grades C in GCSE English and English Literature, preferably B or above
- A genuine interest in language and reading for pleasure
- A willingness to meet all homework and course requirements and to contribute to group discussions.

Higher Education and Career Opportunities

A high status qualification which supports a wide range of university courses and careers. Of particular relevance to careers involving communication and investigation eg law, journalism, teaching.



English Language & Literature

Exam board

WJEC

Outline of Modules

AS

LL1: Critical Reading of Literary and Non-Literary Texts (60%)

LL2: Creative Writing (40%)

A2

LL3: Analysing and Producing Performance Texts (40%)

LL4: Comparative Textual Analysis and Review (60%)

Criteria for entry

B in both English Language and English Literature at GCSE

Higher Education and career opportunities

English is a necessity to enter many undergraduate courses, and this course is particularly focused on teaching the critical thinking skills that are necessary in higher education. An A level in English can also lead to employment in almost any area, as communication, analysis and critical thinking skills are valued in most jobs.



Film Studies

Exam board

WJEC

Specification outline

AS

FM1: Exploring Film Form (40% internal assessment)

FM2: British and American Film (60% external assessment)

A2

FM3: Film Research and Creative project (50% internal assessment)

FM4: Varieties of Film experiences– world cinema (50% external assessment)

Entry requirements

5 A*– C GCSEs

Higher Education and career opportunities

Higher Education

Film studies is a popular course at many higher educational institutions. It is also possible to combine a degree or higher education course in film studies with a range of other disciplines

Employment

Employment opportunities include media, education, business, journalism or the graphic arts.



French

Exam Board

AQA

Outline of Modules

AS

Unit 1 (70% of AS/35% of A Level) Listening, reading and writing

Unit 2 (30% of AS/15% of A Level) Speaking

A2

Unit 3 (35%) Listening, reading and writing

Unit 4 (15%) Speaking

AS Topics

Media, Popular Culture, Healthy Living/Lifestyle, Family/Relationships.

A2 Topics

Environment, The Multicultural Society, Two Cultural Topics from a choice of:

- A target-language-speaking religion/community
- A period of 20th century history from a target language-speaking country/community
- A dramatist/poet from a target language-speaking country/community
- A director/architect/musician/painter from a target language-speaking country/community

Criteria for Entry

- A GCSE Grade B or above in French
- Be sufficiently self-motivated and keen to improve linguistic skills

Higher Education and Career Opportunities

Higher Education:

- Languages/linguistics related courses
- Arts based courses
- Humanities/Politics based courses
- Education
- Media

Employment Fields

- Business (all areas/types)
- Education
- Media
- Translation/interpreting
- Recruitment



Geography

Exam Board

AQA

Outline of Modules

AS

Unit 1 – Physical and Human Geography (70% of AS/ 35% of A2)

4 topics studied – Rivers, Floods and Management, Coastal Environments, Population Change and either Health or Food Supply Issues. Combination of 1 ½ hour data response short exam questions and longer guided essay questions.

Unit 2 – Geographical Skills (30% of AS/ 15% of A2)

2 topics studied based on human and physical geography with a 1 hour examination including resource booklet. This involves 2 long response questions involving physical and human aspects of geography.

A2

Unit 3 – Contemporary Geographical Issues (30% of A2)

Topics from a range of physical and human options to include four of plate tectonics and associated hazards, weather and climate and associated hazards, challenges facing ecosystems, world cities, development and globalisation. Written 2 hour paper of short and extended questions and an essay.

Unit 4 – Geography Fieldwork Investigation/ Evaluation (20% of A2)

Structured short and extended questions based on either the candidate's own fieldwork investigation or an advanced information leaflet issued by AQA.

Criteria for Entry

- Ideally C or above in Geography
- Well-motivated individual with an interest in Geography around us

Higher Education and Career Opportunities

Higher Education

- Geography courses
- Courses in environmental science
- Development studies
- Education

Employment

- Teaching
- Marketing and financial services
- Environmental Agencies
- Town or transport planning
- Travel and Tourism



Geology

Exam Board
OCR

Outline of Modules

AS

Unit 1 Global Tectonics including Earth Structure, Earthquakes, Continental Drift and Geological Structures

Unit 2 Rocks – Process and Products including study of igneous, sedimentary and metamorphic rocks

Unit 3 Practical Skills in Geology: a fieldwork or practical task completed in Arran, Scotland

A2

Unit 4 Environmental Geology

Unit 5 Evolution of Life, Earth and Climate

Unit 6 Practical Skills in Geology

Criteria for Entry

- Ideally a B in GCSE Science

Higher Education and Career Opportunities

Higher Education

- Geology
- Civil Engineering
- Geophysics
- Earth Science
- Volcanology

Employment

Engineering, Construction, Hydrogeology, Natural Resource Management – mining, oil, water, minerals, Waste Management, Seismology and Hazard Management



Health & Social Care (BTEC Level 3 Certificate, Subsidiary Diploma or Diploma)

Exam board
EDEXCEL

Specification outline

Edexcel BTEC Level 3 Certificate—30 Credits

The 30-credit BTEC Level 3 Certificate offers a specialist qualification that focuses on particular aspects of employment within the appropriate vocational sector. The BTEC level 3 Certificate is a qualification which can extend a learner's programme of study and give vocational emphasis. The BTEC level 3 Certificate is broadly equivalent to one GCE AS Level.

The BTEC Level 3 Certificate is also suitable for more mature learners, who wish to follow a vocational programme of study as part of their continued professional development or who want to move to a different area of employment.

Edexcel BTEC Level 3 Subsidiary Diploma—60 Credits

The 60 credit BTEC Level 3 Subsidiary Diploma extends the specialist work-related focus of the BTEC level 3 Certificate and covers the key knowledge and practical skills required in the appropriate vocational sector. The BTEC level 3 Subsidiary Diploma offers greater flexibility and a choice of emphasis through the optional units. It is broadly equivalent to one GCE A Level and can be studied over 1 year or 2.

Edexcel BTEC Level 3 Diploma—120 Credits

The 120-credit BTEC Level 3 Diploma broadens and expands the specialist work-related focus on the BTEC Level 3 Subsidiary Diploma. There is potential for the qualification to prepare learners for employment in the appropriate vocational sector and it is suitable for those who have decided that they wish to enter a particular area of work. It is broadly equivalent to two GCE A Levels.

Units covered include communication, equality and diversity, health and safety, development through life stages, sociological perspectives, psychological perspectives and personal and professional development (this unit requires an extended period of work experience).

Entry requirements
5 GCSEs

Higher Education and career opportunities

Higher Education

This course prepares leavers by giving the knowledge, understanding and skills that they need for employment in health or social care sectors or can be used as entry requirements to university or college courses in many areas of study, not only health and social care.

Employment

You are interested in progressing to a career in the care sector or would like to develop a range of skills and techniques, personal skills and attributes essential for successful performance in working life.



History

Exam Board

AQA

Outline of Modules

AS

Unit 1 USA 1890-1945

This is a written paper. Weighting: 50% of the AS, 25% of the A2

Unit 2 Impact of Stalin's leadership on USSR 1924-41

This is a written paper. Weighting: 50% of the AS, 25% of the A2

A2

Unit 3 The Making of Modern Britain 1951-2007

This is a written paper. Weighting: 30% of the total A Level marks

Unit 4 Historical Enquiry.

This is a personal study of approximately 3,500 words. Weighting: 20% of the total A Level marks.

Criteria for Entry

- Previous study of History at GCSE is desirable
- Students should preferably have a B grade in English
- Students should be well motivated
- The ability to work independently

Higher Education and Career Opportunities

Higher Education

- History and related courses such as Archaeology
- Education
- Law
- Journalism
- Media

Employment Fields

- Media
- Police
- Public relations
- Law
- Marketing
- The management of historical sites



Hospitality

(BTEC Level 3 Certificate, Subsidiary Diploma or Diploma)

Exam Board
EDEXCEL

This course is designed for students who enjoy the cooking side of the hospitality industry, but also focuses on hospitality management. This course can extend the learners knowledge of what they have learned at GCSE level. Each unit is entirely made up of course work.

Outline of Modules

Certificate

- Unit 1 – The Hospitality Industry
- Unit 2 – Supervising Customer Service
- Unit 3 – Providing Customer Service
- Unit 22 – Planning a hospitality event

Subsidiary diploma

- Unit 11 – Asian food
- Unit 12 – Contemporary world food
- Unit 16 – Hospitality enterprise
- Unit 10 – European food

Criteria for Entry

- Catering or Food Technology at GCSE, C grade or above
- Students should preferably have a keen interest in food and the Hospitality Industry
- Students should be well motivated
- The ability to work independently

Higher Education and Career Opportunities

Higher Education

- Food and nutrition
- Food technology
- Environmental health
- Event management
- Dietetics

Employment Fields

- Food manufacture
- Hotel management
- Environmental health
- Teaching
- Event management
- Clinical dietitian



ICT AS/A2

Exam Board
EDEXCEL

Outline of Modules

AS

Unit 1 (33.3%) The Information Age: In this unit you will learn about the information communication technologies that enable people to access and exchange information and to carry out transactions anytime, anywhere. You will take a critical look at the impact that the Internet has had on the way people conduct their personal and professional lives.

Unit 2 (33.3%) The Digital Economy: Paperless transactions are hallmarks of the digital economy. In the global e-marketplace transactional websites are the interface between e-enabled customers and organisations, allowing them to do business with one another anytime, anywhere. In this unit, you will investigate how organisations are responding to the pressures of the e-marketplace.

Unit 3 (33.3%) The Knowledge Worker: In this unit you will learn about making informed decisions using the knowledge available to you. You will learn how to select your sources and decide on how much credence you can place in them. You will learn that there are often many factors to consider when making a decision and that part of the process is to identify gaps in your knowledge.

A2

Unit 7 (33.3%) Using Database Software: In this unit you will develop your knowledge of, and skills in using, databases further. You will learn the principles of data modelling and sound database design.

Unit 8 (33.3%) Managing ICT Projects: You will be able to put into practice what you have learnt by setting up and running a small-scale software project. You will have to draw on the knowledge and skills you have learned throughout the course in order to plan for and produce the required software product. It is assumed that you already have skills in at least two different software applications and some experience of the processes involved in software design and implementation.

Unit 10 (33.3%) (Using Multimedia Software: Your work for this unit will culminate in the design, development and testing of an interactive multimedia product for a specified target audience.

Criteria for Entry

- 5 GCSEs grades at A-C including 2x ICT GCSE Grades at B+
- Ability and enthusiasm to work hard both within and outside of lessons
- An interest in the world of ICT and practical application of ICT skills

Higher Education and Career Opportunities

Higher Education

- HND in ICT or Business/ICT related subject
- Degree in ICT or Business/ICT related subjects

Employment

- This course is not a progression into employment but candidates may find employment opportunities in data handling/office-based environment.



ICT

(BTEC Level 3 Certificate)

Exam Board
EDEXCEL

Outline of Modules

Year 1 – Certificate

Unit 1: Communication and Employability Skills for IT

Unit 2: Computer Systems

Unit 22: Developing computer games

Year 2 – Subsidiary Diploma

Unit 18: Database Skills

Unit 28: Website production

Unit 30: Digital Graphics

(Units in Year 2 may vary to those published)

Criteria for Entry

- 5 GCSEs grades at A-C including x 2 ICT GCSE
- Ability and enthusiasm to work hard both within and outside of lessons
- An interest in the world of ICT and practical application of ICT skills

Higher Education and Career Opportunities

Higher Education

- HND in ICT or Business/ICT related subject
- Degree in ICT or Business/ICT related subjects

Employment

- This course is not a progression into employment but candidates may find employment opportunities in data handling/office-based environments



LAW

Exam board

AQA

Specification outline

AS:

Unit 1: Law Making and the Legal System; exam, 50% of AS level, 25% of A2.

Unit 2: The Concept of Liability; exam, 50% Of AS , 25% of A2.

A2

Unit 3: Criminal Law , Offences against the person, exam, 25%

Unit 4: Criminal Law, Offences against property, exam 25%.

Entry requirements

5 A* to C GCSE including English and mathematics.

Higher Education and career opportunities

There are many degree courses that focus exclusively on the study of Law , that would lead into professions such as The Police Force, a Legal Executive, Lawyer/Solicitor or Barrister. There are also many courses that combine the study of Law with other disciplines.



Mathematics

Exam Board

EDEXCEL - Mathematics AS (8871) / EDEXCEL - Mathematics A2 (9371)

Outline of Modules

- EDEXCEL Mathematics does not require coursework
- The pure mathematics units C1, C2, C3, and C4 require very good algebraic skills.

AS

To gain an AS Mathematics qualification you need to complete 3 units. There are two pure units (C1 & C2) plus a third applied unit which will be Mechanics (M1) or Statistics (S1)

Unit C1 is non-calculator.

A2

To gain an A Level Mathematics qualification you need to pass the 3 AS units and 3 A2 units. The A2 units are two pure units (C3 & C4) which follow on from C1 & C2 plus a third applied unit which will be Statistics 1 (S1) or Mechanics (M1)

Criteria for Entry

- Ideally an A or A* grade at GCSE but grade B students will be considered
- High Motivation with an aptitude for problem solving and decision making
- Progression to A2 requires a minimum of grade D for the C1 and C2 units. This is because the A2 pure units require good understanding of C1 and C2
- You are expected to make your own notes and to be pro-active in your learning e.g. seek help as required, have questions ready etc.

Higher Education and Career Opportunities

Higher Education

Mathematics never closes any opportunities. As mathematics is considered to be a 'hard' it can often make entry on to courses easier. Some possibilities are:

- Mathematics related courses including teaching, accountancy
- Mathematics combined with sciences would enable entry to many courses including engineering, medicine, agriculture, computing
- Mathematics combined with humanities subjects would enable entry to courses such as geography, architecture, economics, politics, law, actuary, insurance

Employment

Anything is possible but aside from teaching and research mathematics is particularly relevant for jobs involving

- Data analysis
- Numerical analysis
- Problem solving
- Risk assessment and probability analysis (e.g. insurance, assurance)



Mathematics (Further)

Extra Curricular study in collaboration with Manchester University

Exam Board

OCR (MEI) Further Maths

Modules

- 6 units – 3 units for AS level and 3 for A2 level.

What students get

- A tutor including email support
- Weekly teaching sessions
- One or two working days per module at the University of Manchester
- A revision day for each module
- Occasional school visits by the Manchester Further Mathematics team
- Access to the MEI resources web-site (www.resources.mei.org.uk)
- Access to the Further Mathematics network website (www.fmnetwork.org.uk)

Criteria for Entry

You must be an able mathematician who is taking A level Mathematics and is capable of grade B or above at the normal A level.

- You must enjoy mathematics
- You want a chance to consolidate and go beyond the standard A level
- You want a challenge
- You want to be recognised as a keen and able mathematician
- You want to taste a more independent style of learning
- You want a chance to work with students from other schools and colleges
- You are willing to use enrichment time on Wednesday afternoon to study further Mathematics.

Higher Education and Career Opportunities

- Good A level mathematicians are getting rarer and an A level in Further Mathematics is rarer still and is always looked upon favourably especially for students wishing to progress to a degree in Mathematics.
- For other details please refer to the Mathematics A level



Media Studies

Exam Board

OCR

Outline of Modules

AS

G321: Foundation Portfolio in Media

This is a coursework unit where candidates produce two paired media artefacts from a series of briefs. This process involves progression from a pre-production, preliminary exercise to a more fully realised piece. The briefs offered are: print, video, audio and website. This unit is internally assessed and externally moderated.

G322: Key Media Concepts (TV Drama) or

G323: Key Media Concepts (Radio Drama)

A2

G324: Advanced Portfolio in Media

G325: Critical Perspectives in Media

Criteria for Entry

- A GCSE Grade C or above in English or English Literature
- Be sufficiently self-motivated and keen to improve their critical reading skills

Higher Education and Career Opportunities

Higher Education

- Media
- Media Theory & Production

Employment Fields

- Business (all areas/types)
- Education
- Media
- Recruitment
- Radio
- Television
- Journalism



Photography

Exam Board

OCR - Art & Design (Photography endorsed)

Outline of Modules

AS

Unit 1 (30%) Coursework Portfolio - Producing practical photo-digital artwork using Photoshop CS based software and related photographic packages. A range of digital cameras and lighting equipment will be used in relation to a theme. Internally assessed & externally moderated.

Unit 2 (20%) Controlled assignment - (Exam: 5 hrs); Candidates select one starting point from question paper. Internally assessed & externally moderated.

A2

Unit 3 (30%): Personal investigation - Practical photo-digital art work related to a specific theme chosen by the student. Internally assessed & externally moderated.

Unit 4 (20%): Controlled assignment - (Exam 15 hrs); Candidates select one starting point from question paper. Internally assessed & externally moderated.

Criteria for entry

- Preferably a GCSE C grade or above in an Art related subject.
- Have creative and imaginative skills.
- Organised and able to meet deadlines
- Access to a digital camera
- Students will be asked for a voluntary contribution of £30 to cover printing costs

Higher Education and Career Opportunities

Higher Education:

- Foundation/Degree courses in Art/Photography related subjects

Employment Fields

- Fashion/ sports photography
- Portrait/family photography
- Documentary/ reportage for newspaper/magazines.
- Interior Design
- Teaching
- Advertising
- Product based photography
- Web design & CAD



Physical Education (BTEC Level 3 Certificate)

The Certificate is the equivalent of 1 AS Level

Exam Board
EDEXCEL

Outline of Modules

Mandatory Units

- 1 - Principles of Anatomy and Physiology in Sport
- 2 - The Physiology of Fitness
- 3 - Assessing Risk in Sport

Optional Units

- 7 - Fitness Testing for Sport and Exercise
- 29 - Principles and Practices in Outdoor Adventure

Units undertaken in Year 13 are chosen, where possible, to personalise learning and give students the best possible opportunity to succeed. Assessment of student's strengths and development areas will be undertaken to determine the most suitable unit pathway.

Criteria for Entry

- English at grade C
- GCSE Physical Education at grade C or above or alternatively
- Merit or above at BTEC sport (Level 2)

Higher Education and Career Opportunities

Higher Education

A BTEC National in Sport will support students in the study of a degree, Higher National or diploma in the following areas: Physical Education (Qualified Teacher Status), Sport, Health Studies, Leisure Management, Nutrition, Sports Rehabilitation and Therapy, Sports Management and Business, Sports Psychology.

Career Opportunities

- PE teacher
- Sports Coach/development
- Management of sports industry



Physics

Exam Board
EDEXCEL

Outline of Modules

AS

Unit 1 (40%) Mechanics and materials. Taught using applications that relate to sports, joint replacements and lens implants – Externally assessed

Unit 2 (40%) Waves, electricity and the wave / particle nature of light. Taught through the context of solar cells, science of music and medical physics - Externally assessed

Unit 3 (20%) Coursework – an experiment based on a physics-based visit or application of Physics - Internally assessed

A2

Unit 4 (40%) Further mechanics, involving electric and magnetic fields and current research in particle physics – Externally assessed

Unit 5 (40%) Thermal energy, oscillations, nuclear decay, astrophysics and cosmology – Externally assessed

Unit 6 (20%) Coursework – planning and carrying out an experiment, then analysing the results – Internally assessed

Criteria for Entry

- B in core Science (Higher Tier) *and* B in Additional Science (Higher Tier) not Additional Applied or Dual Award Applied Science
- B in GCSE Mathematics OR
- B in GCSE Physics (Higher Tier)
- B in GCSE Mathematics

Higher Education and Career Opportunities

Higher Education

- Medicine
- Finance
- Law
- Computing.

Employment

An enormous number of opportunities are open to holders of A2 Physics. You could be trying to answer some of the big questions in life, improving the quality of people's lives in medicine, engineering, climatology, noise engineering, flight engineering, vehicle design, broadcasting, science writing, satellite design, computer science, pollution science, biomedical engineering, doctor, osteopathy, radiography, veterinary surgery, investment banking, financial analysis, biotechnology, sports equipment design, recording engineering, CAD technology.



Product Design

Exam Board
AQA

Outline of Modules

AS
Unit 1 (50% of AS, 25% of A2) Written Exam. Materials and Components paper
Unit 2 (50 % of AS, 25% of A2) Coursework. Two projects that are marked together as a single unit.

A2
Unit 3 (25% of A2) Written Exam. This paper is based on Design and Manufacture
Unit 4 (25% of A2) Coursework. A single substantial Design Project

Criteria for Entry

- Minimum C or above in a relevant Technology area

Higher Education and Career Opportunities

Higher Education

- Product design
- Automotive Design
- Eco - Design

Employment

- Product Designer
- Product Manager
- Buyer
- Automotive Designer



Psychology

Exam Board

AQA

Outline of Modules

AS

Unit 1 (50%): Developmental, Cognitive and Research methods

Unit 2 (50%): Physiological, Social, and Individual Differences

A2

Unit 3 (50%): Relationships, Aggression, Perception

Unit 4 (50%): Psychopathology, Media and Celebrity, Research methods

Criteria for Entry

- Grade C or above in Mathematics
- Grade C or above in English
- Grade B or above in Core Science

Higher Education and Career Opportunities

Higher Education

Psychology is excellent for further study in most other social science areas e.g. Sociology, Criminology, Social Welfare, Law, Media, Education, Politics & Philosophy, as well as being an excellent subject alongside Biology and Medicine.

Employment

Psychology has many applications such as in Criminology, Police, Law, Probation Services, Medicine, Mass Media, Education, Social Welfare, Psychotherapy, Counselling and Research Projects.



Religious Studies, Philosophy and Ethics

Exam Board

AQA

Outline of Modules

All Units are worth 50% of the AS or A2 exam.

All assessment is by written examinations. There is no coursework

AS*

Unit 1 Religion & Ethics: Utilitarianism, situation ethics, the value of human life, abortion & euthanasia.

Unit 2 Philosophy: Cosmological argument, religious experience, psychology & religion, atheism & postmodernism.

A2*

Unit 3 Religion & Ethics: Virtue ethics, freewill and determinism, sexual relationships and human behaviour, technology and science.

Unit 4 Life, Death & Beyond: Nature and value of human life, end of the world, present life, death and beyond.

** aspects of the course may be re-negotiated at the request of staff and/or students*

Criteria for Entry

C grade in GCSE Religious Studies or a C in English

Higher Education and Career Opportunities

Higher Education

An AS/A2 level in Philosophy and Ethics can lead to degrees or further study in Philosophy, Religious Studies, Politics, Sociology, Social Welfare, Psychology, and can of course count in your points score towards any other course of study.

Employment

The majority of careers in the UK are in the service sector, for which any further education dealing with different opinions, viewpoints or cultures can be a great asset. The learning and thinking skills gained are also very useful in a wide range of careers from the law, media, social & public services, research work, as well as other applications such as welfare work and teaching.



Sociology

Exam Board

AQA

Outline of Modules

AS

Unit 1 (40%) Culture & Identity

Unit 2 (60%) Sociology of Health **AND** Research Methods

A2

Unit 3 (40%) Beliefs in Society

Unit 4 (60%) Crime & Deviance **AND** Theory & Methods

Criteria for Entry

- 5 A-C grades including English
- GCSE C grade or above in a Humanities subject (RS, Geography, History)

Higher Education and Career Opportunities

Higher Education

Sociology can provide an excellent basis for most social science courses, such as Sociology, Politics, Law, Economics, Psychology, Anthropology, Social Welfare, as well as Philosophy & Religious Studies.

Employment

Sociology is an excellent subject for employment in a huge variety of areas including the law, police, social welfare, media, education, the Civil service, community work, transport, and environment & management.



Spanish

Exam Board

AQA

Outline of Modules

AS

Unit 1 (70% of AS/35% of A Level) Listening, reading, writing

Unit 2 (30% of AS/15% of A Level) Speaking

A2

Unit 3 (35%) Listening, reading, writing

Unit 4 (15%) Speaking

AS Topics

Media, Popular Culture, Healthy Living/Lifestyle, Family/Relationships

A2 Topics

Environment, The Multicultural Society, Two Cultural Topics from a choice of:

- A target-language-speaking region/community
- A period of 20th century history from a target language-speaking country/community
- A novelist from a target language-speaking country/community
- A dramatist/poet from a target language-speaking country/community
- A director/architect/musician/painter from a target language-speaking country/community

Criteria for Entry

- A GCSE Grade B or above in Spanish
- Be sufficiently self-motivated and keen to improve linguistic skills

Higher Education and Career Opportunities

Higher Education

- Languages/linguistics related courses
- Arts based courses
- Humanities/Politics based courses
- Education
- Media

Employment

- Business (all areas/types)
- Education
- Media
- Translation/interpreting
- Recruitment



Textiles

Exam Board

AQA

Outline of Modules

AS

Unit 1 (50%) Portfolio

Students produce a coursework based project around a given theme, supported by a minimum of 1000 words of text.

Unit 2 (50%)

This unit is set by the exam board and is a controlled test based on a given theme.

Students research the theme and develop a range of samples as preparatory studies for a five hour controlled test. Students seek to explore and develop their knowledge and skills. There is a large element of coursework, which consists of a portfolio which supports the designing and making process and the development of the final pieces.

A2

Unit 3 (50%) Personal Investigation

Students develop work in response to an idea, issue, concept or theme of their choosing. Students research their theme, develop techniques and samples and produce a final piece. They take inspiration from designers, artists or crafts people and write a supporting essay of 1000 - 3000 words.

Unit 4 (50%) Externally Set Assignment.

The exam board offers eight exciting starting points. Students choose one. Towards the end of the examination period students must complete 15 hours of unaided, supervised time, during this time they complete their final product or piece.

Criteria for Entry

- A GCSE Grade C or above in Textiles
- High Motivation with an aptitude for design

Higher Education and Career Opportunities

Higher Education

- Textile & Fashion Design
- Most Design based courses

Employment

- Textile & Fashion Design
- Product Management
- Buying



Level 2 courses

	<i>Page no.</i>
Agriculture (BTEC Extended Certificate).....	39
Art (GCSE).....	40
Business (BTEC Extended Certificate).....	41
English Language (GCSE).....	42
ICT (BTEC First Certificate).....	43
Mathematics (GCSE).....	44



Agriculture

(BTEC Extended Certificate)

Exam Board
EDEXCEL

Specification outline

BTEC First Extended Certificate

BTEC Agriculture forms the core of the full-time Level 2 post-16 package at Todmorden High School. Students who are successful will be awarded the BTEC First Certificate, equivalent to two GCSEs. Students who opt for this course will also take Applied Art GCSE, and, if applicable, Maths and English GCSEs.

Students will study a wide range of topics, for example Agricultural production, farm animal production and estate maintenance.

The course is very 'hands on' and includes visits to local farms, working on market gardens and involvement in 'The Incredible Edible Todmorden' project.

Criteria for Entry

Completion of Key Stage 4 courses, good punctuality and a commitment to learning. There are no minimum academic entry requirements.

Higher Education

Access to Level 3 courses, the BTEC in Agriculture provides a good introduction to students who want to follow courses in animal management, agriculture and farming related careers/courses in higher education institutions.



Art (GCSE)

Exam Board

AQA

Specification outline

Applied GCSE

This vocational course complements the BTEC Agriculture Course. Artwork will be set around the common theme of growing, planting and care of wildlife.

There will be two coursework projects and one controlled test

You will be expected to:

- Study artists and designers
- Work in a range of media to try out ideas
- Make observations
- Produce your own personal outcome

Students will be expected to keep a sketchbook and undertake independent work

Criteria for Entry

A willingness to work hard and learn new skills

Higher Education

Passing at C or above could help to get on a Level 3 course.



Business (BTEC Extended Certificate)

This is a Level 2 course equivalent to 2 GCSEs at A*-C.

Exam Board
EDEXCEL

Outline of Modules

BTEC Business forms the core of the full-time Level 2 post-16 package at Calder High School. Students who are successful will be awarded the BTEC First Certificate, equivalent to two GCSEs. Students who opt for this course will also take ICT GCSE, and, if applicable, Maths and English GCSEs.

The course is made up of six portfolio units – there are no exams. Units 1 to 2 are compulsory – other units we offer are:

- Unit 1 Business Purposes
- Unit 2 Business Organisations
- Unit 7 Verbal and Non-Verbal Communication
- Unit 10 Personal Selling
- Unit 17 Starting a Small Business

Pass, Merit and Distinction are awarded which are equal to CC, BB and AA at GCSE

Criteria for Entry

- At least 5 A*-E grades at GCSE
- Previous study in Business is not required but beneficial
- High Motivation with an aptitude for independent learning
- A willingness to work hard

Higher Education and Career Opportunities

Higher Education

- BTEC National Award, Certificate or Diploma in Business
- AS/A2 GCE in Applied Business

Employment

- Administration
- Marketing
- Human Resources
- Communication



English Language (GCSE)

Exam Board

AQA

Outline of Modules

The course consists of three elements

- Unit 1 - 2 hour examination - Foundation Tier - 40% of the total mark
Section A Reading response to non-fiction/media texts
Section B two tasks testing your ability to write to argue, persuade, advise, describe, inform or explain
- Unit 2 - three speaking and listening activities – presenting, discussing and listening and role play - 20% of the total mark
- Unit 3 - four controlled assessments: 2 Creative Writing pieces, 1 Response to a text and 1 Spoken Language Study - 40% of the total mark

Criteria for Entry

- Commitment to aim for grade C or above
- GCSE D or E grade in English

Higher Education and Career Opportunities

Higher Education

- Level 2 (GCSE grade C equivalent) qualifications in English Language are a national benchmark for Post-16 study
- Required for all University courses and most Level 3 courses in Further Education

Employment

- Necessary for most job applications



ICT

(BTEC First Certificate)

Exam Board
EDEXCEL

Outline of Modules

Unit 1 – Communicating in the IT industry

The aim of this unit is to enable learners to use IT tools to communicate and exchange information safely, securely and effectively with different audiences. Learners will complete a project based on The Great Generation and will have the opportunity to partake in role-plays and use Web 2.0 technologies.

Unit 23 – Computer Graphics

The aim of this unit is to give learners a working knowledge of the hardware and software used to generate and manipulate computer generated images. Learners will acquire the skills to produce computer graphics and use them to enhance documents. Learners will complete a project based on the Olympics; editing existing graphics and creating their own original designs..

Evidence that has to be provided for both units is in the form of printed publications, screen prints demonstrating skills, witness observations and witness testimonials.

This qualification is worth equivalent to 1 GCSE grade at A*-C.

Criteria for Entry

At least 5 A*-E grades at GCSE

Higher Education and Career Opportunities

Employment

This course is designed to give a good introduction to the world of ICT and Computing and aims to prepare students for further study or as entry level to employment. Students who achieve this qualification should be prepared to enter AS and A2 Applied ICT or other vocational ICT qualifications.



Mathematics (GCSE)

Exam Board

EDEXCEL 2MB02

Outline of Modules

GCSE is a modular course with examinations in November, March and late May/early June **OR** a linear course with examinations in June. The selection of course will depend on each candidate's prior attainment. There is no coursework to complete. Candidates will learn skills in the following areas:

- Number
- Algebra
- Measures, Space & Shape
- Handling Data

Adult Numeracy is tested on line and is equivalent to just over a half GCSE grade C.

Candidates will be expected to apply skills in:

- Number
- Algebra
- Measures, Space & Shape
- Handling Data

Criteria for Entry

- Students will need to have a GCSE pass at grade D or E to be considered for a one year Level 2 mathematics course
- Prior attainment and progression aspirations will determine whether candidates are most suited to study towards the GCSE or the Adult Numeracy course, both of which are nationally recognised qualifications
- Commitment to attend two lessons each week
- Commitment to purchase course textbook and optional revision materials

Higher Education and Career Opportunities

Higher Education

- Level 2 (GCSE grade C equivalent) qualifications in mathematics are a national benchmark for Post 16 study
- Students following a Level 2 programme of study need to gain a balanced 'portfolio' of qualifications and either of the above will provide such
- Should Level 3 students, with an Adult Numeracy level 2, find that their chosen route requires a GCSE, entries can be made in Year 13

Employment

Level 2 (GCSE grade C equivalent) qualifications in mathematics are a national benchmark for many 'higher' employment route