



**JOHN MADEJSKI
ACADEMY**

**SIXTH FORM
COURSE GUIDE
2019 | 20**

DETERMINATION | EMPATHY | HARD WORK | INTEGRITY | POSITIVITY



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BIOLOGY

COURSE OUTLINE:

Exam Board: AQA (7402)

Biology involves the study of a wide range of exciting topics, ranging from molecular biology to the study of ecosystems and from microorganisms to mammoths. Biology is a fascinating and diverse area of study. You will deepen your knowledge of familiar topics such as cells, disease, and body systems and be introduced to advanced topics such as biochemistry and genetics.

Biology is a practical subject and you will quickly learn how to work carefully and accurately. By using a wide range of sources, you will hone your skills in research, note taking and presentation.

A level Biology: Paper 1: 2 hours (35%) Paper 2: 2 hours (35%) Paper 3: 2 hours (30%) + Practical Endorsement

SKILLS REQUIRED:

Students need to achieve a least a Grade 6 in Combined Science or Separate Science Biology to gain entry to the course. Students should also have the necessary skills to enable them to: Collect data and evaluate it. Investigate facts and use deduction. Put across their point of view effectively. Take responsibility for their own learning.

FUTURE OPPORTUNITIES:

Biology A level is one of the most popular A level subjects in the country and enables students to choose a biologically related degree course.

It also provides a good background to careers in:
Law, computing, accounting or teaching.

Biology is a great choice of subject for people who want a career in health and clinical professions, such as:
Medicine, dentistry, veterinary science, physiotherapy, pharmacy, optometry, nursing, zoology, marine biology, forensic science.



CHEMISTRY

COURSE OUTLINE:

Exam Board: AQA (7405)

A Level Chemistry is a rigorous and highly-regarded academic challenge. You will delve deeply into familiar topics such as atomic structure, carbon chemistry and energetics and be introduced to new areas such as redox chemistry and spectroscopy.

Chemistry is a practical subject and you will quickly learn how to use Quickfit apparatus and how to perform a successful titration. Your numeracy skills will be finally honed and it is expected that you will develop a real appreciation of the meaning of the numbers you are using and applying. You will be required to solve practical and theoretical problems so it is important that you are ready to try out different solutions and be ready to think flexibly.

A level Chemistry: Paper 1: 2 hours (35%) Paper 2: 2 hours (35%) Paper 3: 2 hours (30%) + Practical Endorsement.

SKILLS REQUIRED:

Students need to achieve a least a Grade 6 in Combined Science or Separate Science Chemistry to gain entry to the course as well as a Grade 5 in Maths. Students should also have the necessary skills to enable them to: Collect data and evaluate it. Investigate facts and use deduction. Put over their point of view effectively. Take responsibility for their own learning.

FUTURE OPPORTUNITIES:

Chemistry is a rigorous and in-demand A Level subject. The versatility of Chemistry at A Level means that the student who achieves a good Chemistry result can go on to do a variety of degree courses at university. As well as the study of Chemistry, other popular degree courses include:

Biology, Biochemistry, Engineering, Pharmacology, Veterinary Science, Medicine.

An A Level in Chemistry is required for the study of Medicine at most Universities and Medical Schools. The study of Chemistry provides a sound basis for careers directly using Chemistry, such as: Medicine, Law and Management.



ENGLISH LITERATURE

COURSE OUTLINE:

Exam Board: AQA

The English Literature course involves the study of a range of texts from the literary heritage and modern texts. Students will be required to read a range of texts and analyse character, style of writing and portrayal of themes within them. The course is made up of three core units studied over two years, after which time the A level qualification is awarded.

Paper 1: Literary Genres

Students will study three drama texts, including 'The Importance of Being Earnest' and 'Twelfth Night'.

Paper 2: Texts and Genres

Students will study the novels 'The Kite-runner' and 'The Handmaid's Tale', and 'The poems of William Blake'.

Non-Exam Assessment: Theory and Independence

Study of two texts and a completion of two coursework essays on texts of your own choice.

SKILLS REQUIRED:

You will be required to read a number of texts and to engage in a variety of genre and styles. The ability to engage with texts outside your normal preferences and approach these in a positive, critical manner is vital. There is a lot of reading involved in this course; this should be considered when choosing it:

- You will learn the language of literary criticism and learn to understand the choices available to writers across a range of texts. You will learn the art of essay writing and referencing, these are important skills for any university course
- The skills of close reading and analysis as well as that of essay writing are transferable to a wide variety of other courses and careers notably the humanities, law and politics.
- A well established, traditional A level, a qualification in English Literature will enhance your future opportunities whether you proceed down an academic or vocational pathway post year 13.

FUTURE OPPORTUNITIES:

English A level can lead onto ALL humanities subjects both at A Level and University such as: Business, English, History and ALL courses that require you to have good communication skills and excellent written skills. This can also be applied to jobs after A Level. You can pursue a career in Teaching, Journalism, Law, Advertising, Public Speaker and Politics only to name a few.



GEOGRAPHY

COURSE OUTLINE:

Exam Board: AQA

The world in which we live is likely to change more in the next 50 years than it has ever done before. Our role in that change is more important than ever. Geography explains the changes and helps to prepare people. It is a subject about now and the future.

Geography develops the ability to combine scientific principles with economic awareness, environmental concern and an appreciation and tolerance of peoples' attitudes and values.

The physical modules studied at 'A' level are called 'Water and carbon Cycles', 'Coastal systems and landscapes' and 'Hazards'. These are assessed in a 2 hour 30 minute paper worth 40% of the total mark.

The human modules studied are called 'Global systems and global governance', 'Changing places', and 'Contemporary urban environments'. These are also assessed in a 2 hour 30 minute paper worth 40% of the total mark.

The remaining 20% of the total marks are assessed in a 3000-4000 word piece of coursework based on the content taught.

In addition to the physical and human modules studied, students are taught a variety of cartographic, graphical, geographical enquiry and ICT skills as part of their everyday geography lessons. They are also developed on a field trip to Snowdonia.

SKILLS REQUIRED:

Geography is a balanced discipline which prepares students well for the world of work. Geographers develop good communication skills, develop an ability to work in a team and improve their ability to manage themselves. Numeracy and literacy skills are honed as well as students' ability to solve problems. Computer literacy develops as well as students' spatial, environmental and social awareness.

FUTURE OPPORTUNITIES:

Geographers are trained to be good decision makers who look at all aspects of a situation. Some jobs make direct use of geographical knowledge such as those in tourism, town planning, environmental management and teaching. The broad nature of Geography is also useful for law, journalism, medicine and working in the media.

HISTORY

COURSE OUTLINE:

Exam Board: EdExcel

History is the study of what has happened in the past.

This advanced level course offers the opportunity to study historical sources and interpret their meaning yourself.

The course leads to a full advanced level qualification in History, and will be awarded by the Edexcel Examination Board. There are four separate units. Three of the units are assessed through examinations assessed externally. The fourth unit is internally assessed under and is worth 20% of the overall A- Level.

The current module topics are:

- 1) Paper 1: Breadth study with interpretations - 30% of the course - Germany and West Germany, 1918–89
- 2) Paper 2: Depth study – 20% of the course - The rise and fall of fascism in Italy, c1911–46
- 3) Paper 3: Themes in breadth with aspects in depth – 30% of the course Poverty, public health and the state in Britain, c1780–1939
- 4) Students carry out an independently-researched enquiry to analyse and evaluate a question, problem or issue that has generated disagreement among historians – 20% of the course

SKILLS REQUIRED:

Students will be required to undertake extended writing and essays in all units, in order to present historical explanations, assess the significance of events, individuals, beliefs and movements, and to reach substantiated judgements.

FUTURE OPPORTUNITIES:

The History A Level is recognised to give students a vast range of analytical, evaluation and communication skills so will be incredibly useful for those considering most University courses. A History A Level is often a prerequisite to study History based degrees and is looked upon favourably by other areas such as Politics, Law and Sociology. The transferable skills acquired by completing a History qualification at advanced level should assist you to successfully apply for further training opportunities. Most employers will be looking for people that can display a range of skills such as those needed to study History. History is a highly respected subject and History qualifications are often desired by those in the Legal profession and Public Services. Therefore it is useful for those interested in becoming a Police Officer, Social Worker, Teacher and many more.



MATHEMATICS

COURSE OUTLINE:

Exam Board: EdExcel

The aims and objectives of this qualification are to enable students to:

- Understand mathematics and mathematical processes in a way that promote confidence, foster enjoyment and provide strong foundation for process to further study.
- Extend their range of mathematical skill and techniques.
- Understand coherence and progression in mathematics and how different areas of mathematics are connected.
- Apply mathematics in other fields of study and be aware of relevance of mathematics to the world of work and to situations in society in general.
- Use their mathematical knowledge to make logical and reasoned decisions in solving problems both within pure mathematics and a variety of context.

SKILLS REQUIRED:

Students need to have strong algebra skills, problem solving and logical thinking as the key components.

FUTURE OPPORTUNITIES:

This qualification could prepare you for careers and further educational qualifications in:

Actuarial analyst, Actuary, Forensic accountant, Operational researcher, Research scientist (maths), Secondary school teacher, Statistician, Stockbroker, Engineering, Aerospace engineer, Business analyst, Chartered accountant, Corporate investment banker, Insurance underwriter, Investment analyst

PHYSICAL EDUCATION

COURSE OUTLINE:

Exam Board: AQA

Students will study a variety of theoretical topics about being physically active. This is then combined with a practical performance to give them an overall grade. The course is now a linear course, meaning that all assessments will occur at the end of the course after concluding their two years of learning. However there will be regular assessments and progress tests to ensure there is adequate development to certify the best possible grades. In the A-level qualification there will be two exams worth 35% each then the practical and written evaluation of performance making the remaining 30%. It is expected that all candidates are performing competitively or coaching/officiating at a high level outside of school in order to achieve good marks in the practical assessment as the practical element of the course is assessed but will not be formally taught during curriculum time. Over the course of the first year you will learn three modules for paper one; anatomy and physiology, skill acquisition and sport and society. In the second year you will be taught the modules of exercise physiology and biomechanics, sports psychology, sport and society and technology in sport for paper two.

SKILLS REQUIRED:

- Playing a sport to a high level outside of school
- Completed Physical Education at GCSE Level
- Attained at least a B in both the theory and practical elements of GCSE PE
- A highly motivated and independent student, who understands the demands of A-Level studies
- A genuine interest and good ability in Physical Education
- An interest in how the body and mind reacts under pressure to different sporting situations
- A curiosity into the psychology, history and current topics and concepts that support sport
- A desire to work in the leisure, education, physiotherapy or sports management industry
- Research and analytical skills
- Ability to contribute to discussion and debates around different sporting examples

FUTURE OPPORTUNITIES:

This qualification could prepare you for careers and further educational qualifications in: University to study a variety of sports degrees (sports science, sports psychology, physiotherapy, PE Teacher); Coaching qualifications; Leadership and management in Leisure; Elite Sports Training; Fitness or Personal Training Qualifications; Sports Coach; Armed Forces.



PHYSICS

COURSE OUTLINE:

Exam Board: AQA (7408)

A-level Physics allows students to appreciate how fundamental Science works and to study optional topics that particularly interest them – including Astrophysics, Medical Physics and Applied Physics. In Year 1 you will study Particles and Quantum Phenomena, Mechanics, Materials and Waves. In Year 2, you will study Fields and Further mechanics, Nuclear and Thermal Physics as well as investigative practical work throughout the two years.

A level Physics: Paper 1: 2 hours (35%) Paper 2: 2 hours (35%) Paper 3: 2 hours (30%) + Practical Endorsement.

SKILLS REQUIRED:

Students need to achieve a least a Grade 6 in Combined Science or Separate Science Physics to gain entry to the course as well as a Grade 6 in Maths. Students should also have the necessary skills to enable them to: Collect data and evaluate it. Investigate facts and use deduction. Put over their point of view effectively. Take responsibility for their own learning.

FUTURE OPPORTUNITIES:

Physics is an exciting, challenging subject and the topics offered in Physics provide an ideal training for your future. The ideas and techniques developed during your study of Physics will be invaluable in a wide variety of degrees, including medicine and engineering. Physics is considered a good 'thinking' subject and is well respected as an entry qualification for many careers.





PSYCHOLOGY

COURSE OUTLINE:

Exam Board: EdExcel

Psychology takes a scientific approach to studying human behaviour and the human mind. Psychology is a fascinating subject which is constantly developing with current research. Topics covered in this course include Social and Cognitive Psychology, Learning and Biological Theories, Criminology and Clinical Psychology. This subject explores ideas such as why do people obey? How do we learn? How does our memory work? Why are some people more aggressive? This course equips students with foundations to psychology and an understanding of individual's behaviour and thinking behind their actions. Psychology also has elements of maths, statistics and science as a part of research methods.

SKILLS REQUIRED:

This course will appeal to students who want to better understand human behaviour and what drives humans to do certain things. Skills required for this course include a sound understanding of maths and science. Students should be able to retain knowledge of psychological studies and theories, evaluate these and apply this knowledge to the world around them. This course requires extended writing.

FUTURE OPPORTUNITIES:

This course will enable students to become critical thinkers. Students will use their knowledge of psychological studies and theories to understand the world around them.

This qualification could prepare you for careers and further educational qualifications in:
Care worker, Counsellor, Lawyer, Market researcher, Play therapist, Psychotherapist, Social worker, Teaching.

Specific psychology areas: Clinical psychologist, Counselling psychologist, Educational psychologist, Forensic psychologist, Further education teacher, Health psychologist, Occupational psychologist, Primary care graduate mental health worker, Psychological wellbeing practitioner

SOCIOLOGY

COURSE OUTLINE:

Exam Board: Eduqas WJEC

Sociology is the scientific study of contemporary society. Its focus is upon all kinds of social relationships that people share with each other; in their families, in their schools and in work. Studying Sociology must foster the development of critical and reflective thinking with respect for social diversity. The methods developed by Sociologists are used in many other academic areas such as in data analysis, market research and management studies.

The A level Sociology qualification is assessed through three terminal examinations taken at the end of a two year period of study; Socialisation and culture (40%), Methods of Sociological enquiry (20%) and Power and stratification (40%).

SKILLS REQUIRED:

This course will appeal to students who enjoy looking at the world around them, and who want to understand the social factors that influence people's lives. Learners are encouraged to acquire knowledge and a critical understanding of contemporary social processes and social changes. They will also understand and evaluate sociological methodology and a range of research methods through active involvement in the research process.

FUTURE OPPORTUNITIES:

You can follow a pathway into Higher Education studying: Social work, Social Science, Human Resource management, Specialist Nursing, Teaching.

Sociology provides an excellent foundation for further professional training in areas such as: Law and Criminal Justice, Urban Planning, Public health

Careers connected to Sociology: Survey Researcher, Social Worker, Public Relations, Media Planner, Market Research Analyst, Management Consultant, Lawyer, Human Resources, Guidance Counsellor



BTEC BUSINESS

COURSE OUTLINE:

Exam Board: EdExcel

The BTEC Nationals in Business combine up-to-date industry knowledge with the right balance of the practical, research and behavioural skills students need to succeed in higher education and in their careers. This course allows students to gain real experience, develop effective teamwork and take responsibility for their own learning. Learners will apply their learning through practical assessments in the form of internally assessed assignments and externally assessed tasks and written exams.

SKILLS REQUIRED:

Students will require a minimum of a 4 in GCSE Mathematics (due to the heavy financial content) and a 4 / Merit in GCSE / BTEC Business if studied at KS4. Students will also need to be well organised and have effective time management skills as the course is very demanding with a range of deadlines throughout the year.

This course will appeal to students who require a more a more practical, real-world approach to learning alongside a clearly explained and structured theoretical background. This will help you to develop the knowledge, understanding and skills to prepare you for the business environment. Students will be assessed with a mix of formal examination, externally marked synoptic units and internally assessed coursework.

UNIT BREAKDOWN:

The mandatory units students will study are:

- Unit 1: Exploring Business (internally marked assessment)
- Unit 2: Developing a Marketing Campaign (external assessed synoptic assessment)
- Unit 3: Personal and Business Finance (external 2 hour examination)
- Unit 4: Managing an Event (internally marked assessment)
- Unit 5: International Business (internally marked assessment)
- Unit 6: Principles of Management (external assessed synoptic assessment)
- Unit 8: Recruitment and Selection Process (internally marked assessment)
- Unit 14: Investigating Customer Service (internally marked assessment)

FUTURE OPPORTUNITIES:

- Higher Education in related field
- Higher Apprenticeships in related field
- Employment



BTEC APPLIED SCIENCE

COURSE OUTLINE:

Exam Board: EdExcel

The Edexcel BTEC Level 3 Extended Certificate in Applied Science is a 60-credit and 360-guided learning-hour (GLH) qualification that consists of three mandatory units plus one optional unit that provide for a combined total of 60 credits (where at least 45 credits must be at Level 3 or above). This is a two year course, no certificate is available should a student wish to finish the course in Year 12.

There are four units: Unit 1. Principle & Applications of Science (external exam) Unit 2. Practical Science Techniques (coursework) Unit 3. Science investigation skills (external set practical task) Unit 4. Forensic evidence & collection (coursework).

SKILLS REQUIRED:

Students need to gain at least a grade 5 in Combined Science or Separate Sciences. Students should also have the necessary skills to enable them to: Collect data and evaluate it. Investigate facts and use deduction. Put over their point of view effectively. Take responsibility for their own learning.

FUTURE OPPORTUNITIES:

Completion of this course is an excellent foundation for further study of Forensics, including:

- Teaching
- Data analyst
- Biomedical scientist
- MRI scientist
- Scientific research assistant
- Pharmacology
- The Pharmaceutical industry

BTEC PERFORMING ARTS (EXTENDED DIPLOMA)

COURSE OUTLINE:

Exam Board: Pearson

The Edexcel BTEC Level 3 Extended Certificate in Applied Science (Forensic Science) is a 60-credit and 360-guided The Level 3 BTEC Extended Diploma in Performing Arts is an excellent course which will give students the foundations for pursuing a career in the many areas of the Performing Arts industry.

The Extended Diploma is the equivalent of three 'A' levels over 1080 guided learning hours. It will play to student's individual talents as well as allowing them to really develop their performance skills to a high degree. The course consists of Seven Mandatory units which cover Performance, Business and Workshop delivery. You will then complete 6 other units from a wide range of options. These include (amongst others) Musical Theatre, Contemporary Dance, Script Writing and improvisation. It is envisaged that visiting professionals from the world of performing arts will run sessions and give practical advice and information from their specific fields.

SKILLS REQUIRED:

Although a practical subject where you will need to perform in a variety of productions in front of many audiences, students will need to produce portfolios of evidence and complete a number of assignments throughout the course. They will also need to complete work via a variety of other media such as display work, video evidence and presentation. It will also be expected that the students take a very active role in Performing Arts across the academy and the wider community. The course should be seen as a vocation rather than a subject and it is an expectation that all students will commit to giving up their own free time for the course.

FUTURE OPPORTUNITIES:

This qualification could prepare you for careers and further educational qualifications such as:
Drama at University, Professional Training at Drama School, Advertising, Marketing and New Media, Film, Theatre, Television, Radio, Education, Community Arts, PR, Events Management.

The course also provides an excellent basis for continued personal development and confidence which are valuable skills for any employment pathway.

BTEC SPORT (EXTENDED DIPLOMA)

COURSE OUTLINE:

Exam Board: Pearson

This provides students with a wide range of practical and theoretical opportunities to explore their interests in sport and leadership in ways that are personally relevant. Students studying the level 3 Extended Diploma will develop their practical and intellectual skills through completing coursework units in the following:

- Sports leadership
- Fitness testing
- Practical Sport
- Sports Coaching
- Sports Psychology
- Professional development
- Research methods and projects
- Skill acquisition
- Sports analysis
- Sports injuries

There are also external assessments for the following:

- Anatomy and physiology
- Fitness training
- Sports Development
- Sports business

SKILLS REQUIRED:

Students progressing onto this course will require:

- 5 GCSEs at 4 and above including English and Maths
- Excellent communication skills
- Independent learning and revision skills to be successful in the exam units.
- The ability to work as part of a team
- The ability to meet coursework deadlines

FUTURE OPPORTUNITIES:

This qualification could prepare you for careers and further educational qualifications in:

- Coaching
- Delivering multi skills sessions in holiday clubs
- The Leisure Industry

SPORT AND ACTIVITY LEADERS

COURSE OUTLINE:

Exam Board: EdExcel

This provides students with a wide range of practical and theoretical opportunities to explore their interests in sport and leadership in ways that are personally relevant. Students studying the level 2 Diploma will develop their practical and intellectual skills through completing units in leading sport, working in sport, coaching sport and delivering a sports event. The course exists of both internal and external assessments.

SKILLS REQUIRED:

Students progressing onto this course will require:

- Excellent communication skills
- Independent learning and revision skills to be successful in the exam units.
- The ability to work as part of a team
- The ability to meet coursework deadlines

FUTURE OPPORTUNITIES:

This qualification could prepare you for careers and further educational qualifications in:

- Coaching
- Delivering multi skills sessions in holiday clubs
- The Leisure Industry



BUSINESS ADMINISTRATION

COURSE OUTLINE:

Exam Board: EdExcel

Careers in Business offer fantastic progression pathway into a number of roles throughout an organisation, and the skills you can develop are highly transferable across all industries.

The units you will study include:

- Unit 1: Understanding Administrative Services
- Unit 2: Providing Administrative Services
- Unit 3: Using Business Technology to Process and Communicating Information
- Unit 4: Planning, Organising and Supporting Business Events

WORK EXPERIENCE:

This course is part assessed using a work placement. You will be expected to work in an office environment for a minimum of one day per week as part of this year programme. Work experience placements will be organised in the first term of the year and will give you the opportunity to collect evidence for your units and develop your work based skills

SKILLS REQUIRED:

This course will appeal to students that are interested business administration and have a desire to work with people in an office environment. An interest in related subjects would also be helpful.

FUTURE OPPORTUNITIES:

- Apprenticeship
 - Business Admin (Level 3)
- Employment
 - Business Administration
 - Administrative Assistant
 - Office Administrator
- Level 3 Study
 - National Extended Diploma in Business
 - National Diploma in Enterprise and Entrepreneurship
 - Diploma (Tech Level)



SIXTH FORM KEY CONTACTS

Sixth Form Manager - wendy.bell@johnmadejskiacademy.co.uk

Assistant Principal (Sixth form and Specialisms) - craig.hudson@johnmadejskiacademy.co.uk

Performance Sport (Basketball) - matt.johnson@johnmadejskiacademy.co.uk

Performance Sport (Boys Football) - michael.butcher@johnmadejskiacademy.co.uk

Performance Sport (Girls Football) - rob.gier@johnmadejskiacademy.co.uk

Performing Arts - tommy.robinson@johnmadejskiacademy.co.uk



JOHN MADEJSKI
ACADEMY

JOHN MADEJSKI ACADEMY

125 Hartland Rd, Reading RG2 8AF

T: 0118 937 0200

E: info@johnmadejskiacademy.co.uk

www.johnmadejskiacademy.co.uk



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