S AND A2 LEVEL COURSES 2022

Our Easter revision courses are an excellent way to plan, prepare and address concerns, leaving sufficient time to fine-tune revision skills.

Since 1993 LITE Regal has been in the education business and our experience will allow you through hard work to achieve your goals.

LITE Regal
EDUCATION

LITE Regal Education is accredited by the British Accreditation Council (BAC).

AS and A2 Courses

Biology AS AQA New Specification Boards: AQA 7401

There will be exam practice throughout the course and suggestions for effective ways to tackle examination questions. The following topics will be covered:

- **Biological Molecules**
- **Cells**
- **Organisms exchange substances with their environment**
- **Genetic information, variation and relationships between organisms**

Where appropriate, help will also be provided for practical skills assessed in a written examination.

Biology A2 level AQA Boards: AQA 7402

Throughout the course there will be Examination practise and the Tutor will Review and analyse and tackle Problem areas with the Students. Examination Tips and how to approach papers effectively as well as time management are an integral part of the course and will be taught as well.
The following topics will be covered:

- **Biological Molecules**
- **Cells**
- **Organisms exchange substances with their environment**
- **Genetic information, variation and relationships between organisms**
- **Energy transfers in and between organisms**
- **Organisms respond to changes in their internal and external environments**
- **Genetics, populations, evolution and ecosystems**
- **The control of gene expression**

Where appropriate, help will also be provided for practical skills assessed in a written examination.

Biology AS OCR/A New Specification
Boards: OCR/A H020

There will be exam practice throughout the course and suggestions for effective ways to tackle examination questions.
The following topics will be covered:

- **Cell structure**
- **Biological molecules**
- **Nucleotides and nucleic acids**
- **Enzymes**
- **Biological molecules**
- **Cell division, cell diversity & cellular organisation**
- **Exchange surfaces**
- **Transport in animals**
- **Transport in plants**
- **Communicable diseases and disease prevention**
- **The immune system**
- **Biodiversity**
- **Classification**
- **Evolution**

Where appropriate, help will also be provided for practical skills assessed in a written examination.

Biology A2 level OCR/A New Specification
Boards: OCR/A H420

Throughout the course there will be Examination practise and the Tutor will Review and analyse and tackle Problem areas with the Students. Examination Tips and how to approach papers effectively as well as time management are an integral part of the course and will be taught as well.
The following topics will be covered:

- **Cell structure**
- **Biological molecules**
- **Nucleotides and nucleic acids**
- **Enzymes**
- **Biological membranes**
- **Cell division, cell diversity and cellular organisation**
- **Exchange surfaces**
- **Transport in animals**
- **Transport in plants**
- **Communicable diseases, disease prevention and the immune system**
- **Biodiversity**
- **Classification and evolution**
- **Communication and homeostasis**
- **Excretion as an example of homeostatic control**
- **Neuronal communication**
- **Hormonal communication**
- **Plant and animal responses**
- **Photosynthesis**
- **Respiration**
- **Cellular control**
- **Patterns of inheritance**
- **Manipulating genomes**
- **Cloning and biotechnology**
- **Ecosystems**
- **Populations and sustainability**

Where appropriate, help will also be provided for practical skills assessed in a written examination.

Business AS AQA New Specification
Boards: AQA 7131

There will be exam practice throughout the course and suggestions for effective ways to tackle examination questions. The following topics will be covered:

- **What is business?**
- **Managers, leadership and factors in decision-making**
- **Decision making to improve marketing performance**
- **Decision making to improve operational performance**
- **Decision making to improve financial performance**
- **Decision making to improve human resource performance**

Where appropriate, help will also be provided for practical skills assessed in a written examination.

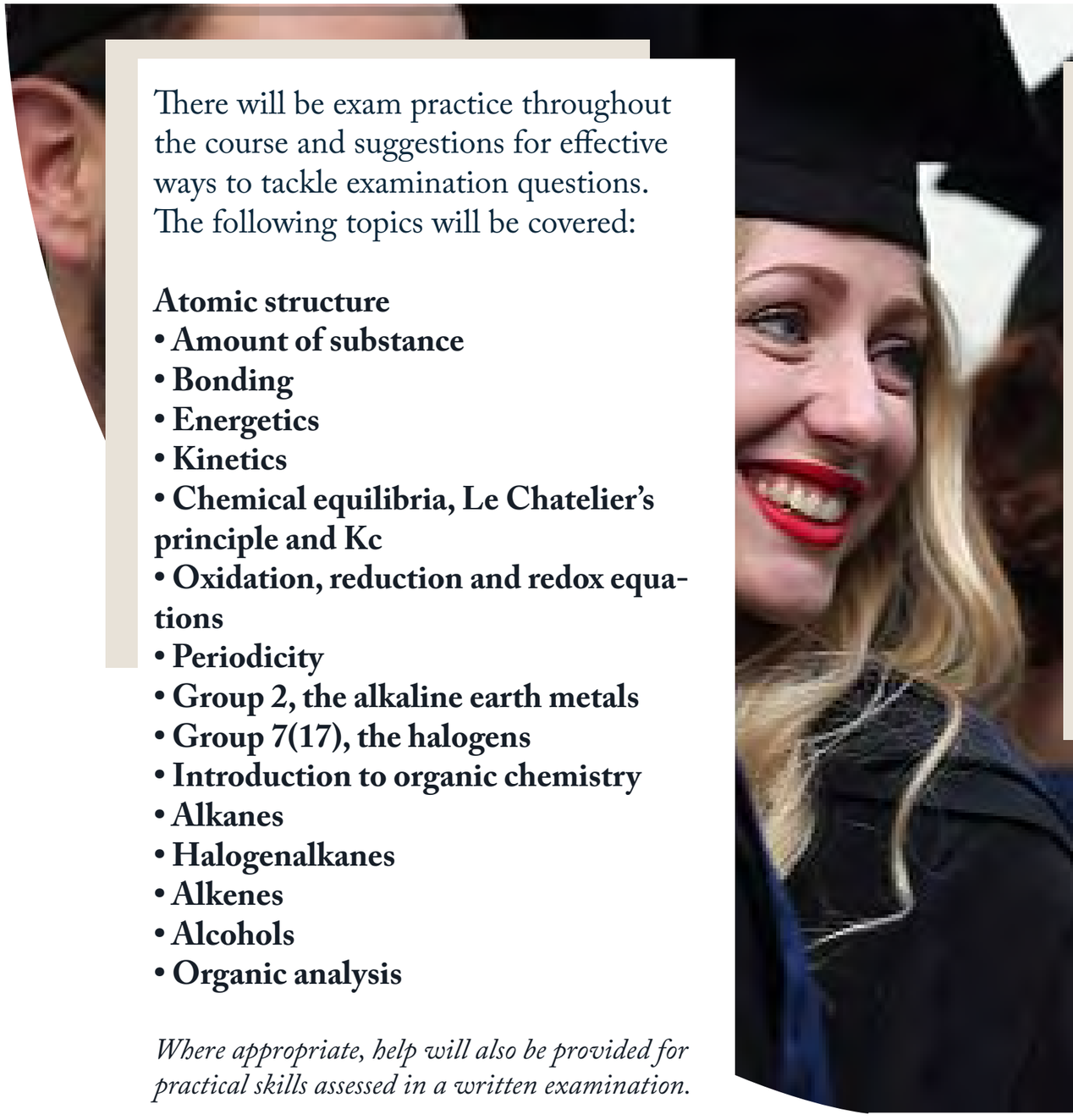
Business A level AQA New Specification
Boards: AQA 7132

Throughout the course there will be Examination practise and the Tutor will Review and analyse and tackle Problem areas with the Students. Examination Tips and how to approach papers effectively as well as time management are an integral part of the course and will be taught as well.
The following topics will be covered:

- **What is business?**
- **Managers, leadership and decision making**
- **Decision making to improve marketing performance**
- **Decision making to improve operational performance**
- **Decision making to improve financial performance**
- **Decision making to improve human resource performance**
- **Analysing the strategic position of a business**
- **Choosing strategic direction**
- **Strategic methods: how to pursue strategies**
- **Managing strategic change**

Where appropriate, help will also be provided for practical skills assessed in a written examination.

Chemistry AS AQA New Specification Boards: AQA 7404 /7405



There will be exam practice throughout the course and suggestions for effective ways to tackle examination questions. The following topics will be covered:

Atomic structure
- **Amount of substance**
- **Bonding**
- **Energetics**
- **Kinetics**
- **Chemical equilibria, Le Chatelier's principle and Kc**
- **Oxidation, reduction and redox equations**
- **Periodicity**
- **Group 2, the alkaline earth metals**
- **Group 7(17), the halogens**
- **Introduction to organic chemistry**
- **Alkanes**
- **Halogenalkanes**
- **Alkenes**
- **Alcohols**
- **Organic analysis**

Where appropriate, help will also be provided for practical skills assessed in a written examination.

Chemistry A2 level AQA New Specification Boards: AQA 7405

Throughout the course there will be Examination practise and the Tutor will Review and analyse and tackle Problem areas with the Students. Examination Tips and how to approach papers effectively as well as time management are an integral part of the course and will be taught as well.
The following topics will be covered:

Physical chemistry
- Atomic structure
- Amount of substance
- Bonding
- Energetics
- Kinetics
- Chemical equilibria, Le Chatelier's principle
- and Kc
- Oxidation, reduction and redox equations
- Thermodynamics
- Rate equations
- Equilibrium constant Kp for homogeneous
- systems
- Electrode potentials and electrochemical cells
- Acids and bases

Organic chemistry
- Atomic structure
- Introduction to organic chemistry
- Alkanes, Halogenoalkanes
- Alkenes, Alcohols
- Organic analysis
- Optical isomerism
- Aldehydes and ketones
- Carboxylic acids and derivatives
- Aromatic chemistry
- Amines
- Polymers
- Amino acids, proteins and DNA
- Organic synthesis
- Nuclear magnetic resonance spectroscopy
- Chromatography

Inorganic chemistry
- Periodicity
- Group 2, the alkaline earth metals
- Group 7(17), the halogens
- Properties of Period 3 elements and their
- oxides
- Transition metals
- Reactions of ions in aqueous solution

Where appropriate, help will also be provided for practical skills assessed in a written examination.

Chemistry AS Edexcel New Specification
Boards: Edexcel 8CH0

There will be exam practice throughout the course and suggestions for effective ways to tackle examination questions. The following topics will be covered:

- **Atomic structure and the Periodic Table**
- **Bonding and structure**
- **Redox 1**
- **Inorganic chemistry and the Periodic Table**
- **Formulae, equations and amounts of substance**
- **Organic Chemistry 1**
- **Modern Analytical Techniques 1**
- **Energetics 1**
- **Kinetics 1**
- **Equilibrium 1**

Where appropriate, help will also be provided for practical skills assessed in a written examination.

Chemistry A level Edexcel New Specification
Boards: Edexcel 9CH0

Throughout the course there will be Examination practise and the Tutor will Review and analyse and tackle Problem areas with the Students. Examination Tips and how to approach papers effectively as well as time management are an integral part of the course and will be taught as well.
The following topics will be covered:

- **Atomic Structure and the Periodic Table**
- **Bonding and Structure**
- **Redox I**
- **Inorganic Chemistry and the Periodic Table**
- **Formulae, Equations and Amounts of Substance**
- **Organic Chemistry I**
- **Modern Analytical Techniques 1**
- **Energetics I**
- **Kinetics I**
- **Equilibrium I**
- **Equilibrium II**
- **Acid-base Equilibria**
- **Energetics II**
- **Redox II**
- **Transition Metals**
- **Kinetics II**
- **Organic Chemistry II**
- **Organic Chemistry III**
- **Modern Analytical Techniques II**

Where appropriate, help will also be provided for practical skills assessed in a written examination.

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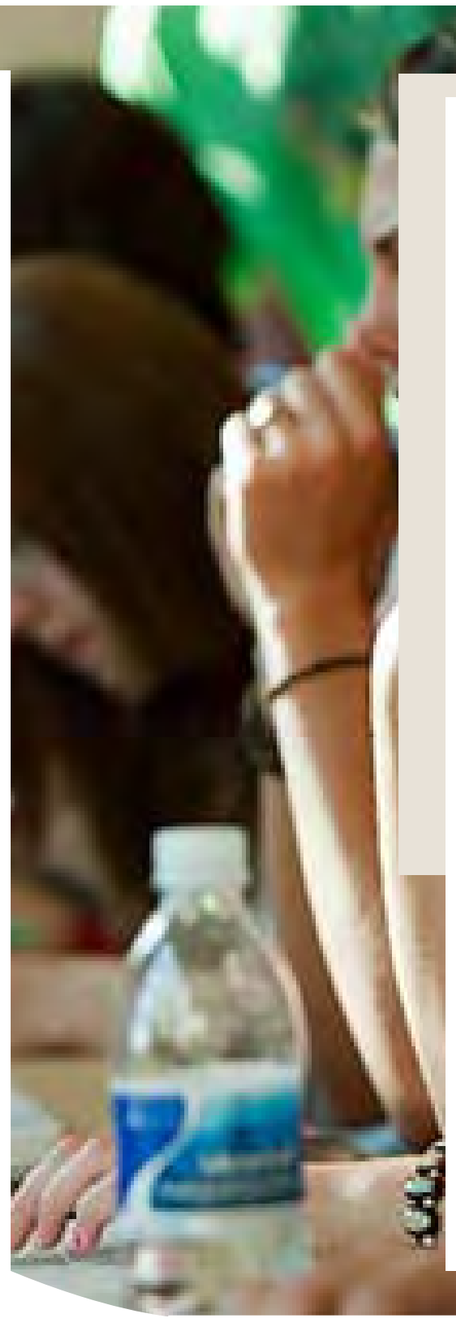
Cambridge: +44(0)2078874509 / cambridge@liteschool.co.uk
AS and A2 courses

Chemistry AS OCR/A New Specification Boards: OCR/A H032

There will be exam practice throughout the course and suggestions for effective ways to tackle examination questions. The following topics will be covered:

- **Atoms and reactions**
- **Compounds, formulae and equations**
- **Amount of substance**
- **Acids**
- **Redox**
- **Electrons, bonding and structure**
- **Periodicity**
- **Group 2**
- **The halogens**
- **Reaction rates**
- **Chemical equilibria**
- **Basic concepts and hydrocarbons**
- **Functional groups**
- **Alkanes**
- **Alkenes**
- **Alcohols**
- **Haloalkanes**
- **Organic synthesis**
- **Analytical techniques**

Where appropriate, help will also be provided for practical skills assessed in a written examination.



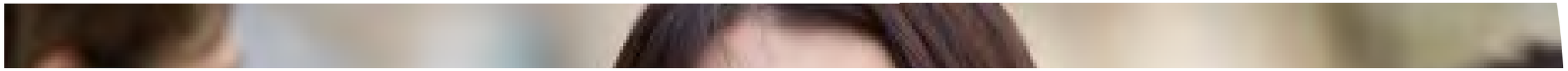
Chemistry A2 level OCR/A New Specification Boards: OCR/A H432

Throughout the course there will be Examination practise and the Tutor will Review and analyse and tackle Problem areas with the Students. Examination Tips and how to approach papers effectively as well as time management are an integral part of the course and will be taught as well.
The following topics will be covered:

- **Atoms, compounds, molecules and equations**
- **Amount of substance**
- **Acid–base and redox reactions**
- **Electrons, bonding and structure**
- **The periodic table and periodicity**
- **Group 2 and the halogens**
- **Qualitative analysis**
- **Enthalpy changes**
- **Reaction rates and equilibrium (qualitative)**
- **Basic concepts**
- **Hydrocarbons**
- **Alcohols and haloalkanes**
- **Organic synthesis**
- **Analytical techniques (IR and MS)**

- **Reaction rates and equilibrium (quantitative)**
- **pH and buffers**
- **Enthalpy, entropy and free energy**
- **Redox and electrode potentials**
- **Transition elements**
- **Aromatic compounds**
- **Carbonyl compounds**
- **Carboxylic acids and esters**
- **Nitrogen compounds**
- **Polymers**
- **Organic synthesis**
- **Chromatography and spectroscopy (NMR)**

Where appropriate, help will also be provided for practical skills assessed in a written examination.



Chemistry AS OCR/B/Salters New Specification
Boards: OCR/B H033 Salters

There will be exam practice throughout the course and suggestions for effective ways to tackle examination questions.

The following topics (storylines) will be covered:

Elements of life - atomic structure, atomic spectra and electron configurations; fusion reactions; mass spectrometry and isotopes; the periodic table and Group 2 chemistry; bonding and the shapes of molecules; chemical equations and amount of substance (moles); ions: formulae, charge density, tests; titrations and titration calculations.

• **Developing fuels -** the chemical ideas in this module are: thermochemistry; organic chemistry: names and combustion of alkanes, alkenes, alcohols; heterogeneous catalysis; reactions of alkenes; addition polymers; electrophilic addition; gas volume calculations; shapes of organic molecules, σ- and π-bonds; structural and E/Z isomers; dealing with polluting gases.

• **Elements from the sea -** halogen chemistry; redox chemistry and electrolysis; equilibrium; atom economy.

• **The ozone story -** composition by volume of gases; the electromagnetic spectrum and the interaction of radiation with matter; rates of reaction; radical reactions; intermolecular bonding; haloalkanes; nucleophilic substitution reactions; the sustainability of the ozone layer.

• **What's in a medicine? -** the chemistry of the –OH group, phenols and alcohols; carboxylic acids and esters; mass spectrometry and IR spectroscopy; organic synthesis, preparative techniques and thin layer chromatography; green chemistry.

Where appropriate, help will also be provided for practical skills assessed in a written examination.

Chemistry A level OCR/B/Salters New Specification
Boards: OCR/B H433 Salters

Throughout the course there will be Examination practise and the Tutor will Review and analyse and tackle Problem areas with the Students. Examination Tips and how to approach papers effectively as well as time management are an integral part of the course and will be taught as well.

The following topics will be covered:

• **Elements of life -** atomic structure, atomic spectra and electron configurations; fusion reactions; mass spectrometry and isotopes; the periodic table and Group 2 chemistry; bonding and the shapes of molecules; chemical equations and amount of substance (moles); ions: formulae, charge density, tests; titrations and titration calculations.

• **Developing fuels -** the chemical ideas in this module are: thermochemistry; organic chemistry: names and combustion of alkanes, alkenes, alcohols; heterogeneous catalysis; reactions of alkenes; addition polymers; electrophilic addition; gas volume calculations; shapes of organic molecules, σ- and π-bonds; structural and E/Z isomers; dealing with polluting gases.

• **Elements from the sea -** halogen chemistry; redox chemistry and electrolysis; equilibrium; atom economy.

• **The ozone story -** composition by volume of gases; the electromagnetic spectrum and the interaction of radiation with matter; rates of reaction; radical reactions; intermolecular bonding; haloalkanes; nucleophilic substitution reactions; the sustainability of the ozone layer.

• **What's in a medicine? -** the chemistry of the –OH group, phenols and alcohols; carboxylic acids and esters; mass spectrometry and IR spectroscopy; organic synthesis, preparative techniques and thin layer chromatography; green chemistry.

• **The chemical industry –** kinetics, using experimental data, calculations involving order of reaction, rate equations, rate constant and Arrhenius equation; equilibrium and equilibrium constant calculations; effects of factors on the rate and equilibrium yields of reactions; aspects of nitrogen chemistry; Sustainability - industrial processes, analysis of costs, benefits and risks of industrial processes

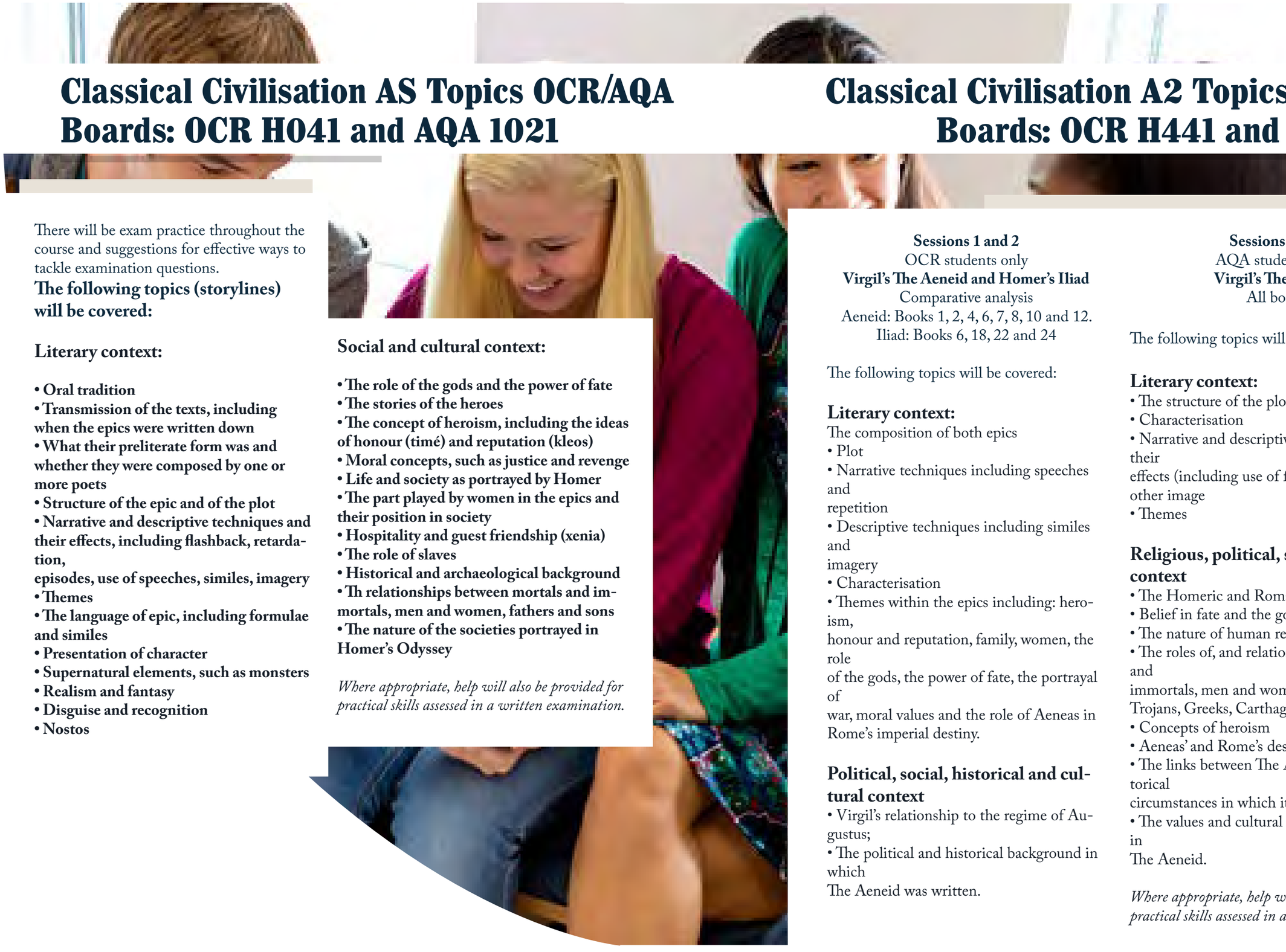
• **Polymers and life –** amino acid chemistry, structure of proteins, the structure and function of DNA and RNA; Kinetics – enzyme chemistry; chemistry of carboxylic acids; homologous series and amides; hydrolysis of esters, amides; condensation polymerisation; isomerism; mass spectra, proton and carbon-13 spectra and combined techniques.

• **Oceans –** enthalpy calculations of lattice enthalpy, hydration energy and solution, entropy calculations; acids and bases including calculations of pH and buffers; 'greenhouse effect'

• **Developing metals –** redox titrations; cells and electrode potentials; d-block chemistry; colorimetry

• **Colour by design –** some chemistry of dyes; fats and oils, aromatic compounds; reactions of aromatic and carbonyl compounds; nucleophilic addition; the chemical origins of colour in organic compounds; gas–liquid chromatography

Where appropriate, help will also be provided for practical skills assessed in a written examination.



Classical Civilisation AS Topics OCR/AQA Boards: OCR H041 and AQA 1021

There will be exam practice throughout the course and suggestions for effective ways to tackle examination questions.

The following topics (storylines) will be covered:

Literary context:

- **Oral tradition**
- **Transmission of the texts, including when the epics were written down**
- **What their preliterate form was and whether they were composed by one or more poets**
- **Structure of the epic and of the plot**
- **Narrative and descriptive techniques and their effects, including flashback, retardation,**
episodes, use of speeches, similes, imagery
- **Themes**
- **The language of epic, including formulae and similes**
- **Presentation of character**
- **Supernatural elements, such as monsters**
- **Realism and fantasy**
- **Disguise and recognition**
- **Nostos**

Social and cultural context:

- **The role of the gods and the power of fate**
- **The stories of the heroes**
- **The concept of heroism, including the ideas of honour (timé) and reputation (kleos)**
- **Moral concepts, such as justice and revenge**
- **Life and society as portrayed by Homer**
- **The part played by women in the epics and their position in society**
- **Hospitality and guest friendship (xenia)**
- **The role of slaves**
- **Historical and archaeological background**
- **Th relationships between mortals and immortals, men and women, fathers and sons**
- **The nature of the societies portrayed in Homer's Odyssey**

Where appropriate, help will also be provided for practical skills assessed in a written examination.

Classical Civilisation A2 Topics OCR/AQA Boards: OCR H441 and AQA 2021

Sessions 1 and 2
OCR students only
Virgil's The Aeneid and Homer's Iliad
Comparative analysis
Aeneid: Books 1, 2, 4, 6, 7, 8, 10 and 12.
Iliad: Books 6, 18, 22 and 24

The following topics will be covered:

Literary context:

The composition of both epics
- Plot
- Narrative techniques including speeches and
repetition
- Descriptive techniques including similes and
imagery
- Characterisation
- Themes within the epics including: heroism,
honour and reputation, family, women, the role
of the gods, the power of fate, the portrayal of
war, moral values and the role of Aeneas in Rome's imperial destiny.

Political, social, historical and cultural context

- Virgil's relationship to the regime of Augustus;
- The political and historical background in which
The Aeneid was written.

Sessions 3 to 5
AQA students only
Virgil's The Aeneid
All books

The following topics will be covered:

Literary context:

- The structure of the plot
- Characterisation
- Narrative and descriptive techniques and their
effects (including use of flashback, similes and other image
- Themes

Religious, political, social and cultural context

- The Homeric and Roman elements
- Belief in fate and the gods
- The nature of human responsibility
- The roles of, and relations between, mortals and
immortals, men and women, fathers and sons, Trojans, Greeks, Carthaginians and Italians
- Concepts of heroism
- Aeneas' and Rome's destiny and mission
- The links between The Aeneid and the historical
circumstances in which it was composed
- The values and cultural assumptions implicit in
The Aeneid.

Where appropriate, help will also be provided for practical skills assessed in a written examination.

Economics AS AQA New Specification
Boards: AQA 7135

There will be exam practice throughout the course and suggestions for effective ways to tackle examination questions. The following topics will be covered:

- **Economic methodology and the economic problem**
- **Price determination in a competitive market**
- **Production, costs and revenue**
- **Competitive and concentrated markets**
- **The market mechanism, market failure and government intervention in markets**
- **The measurement of macroeconomic performance**
- **How the macroeconomy works: the circular flow of income, AD/AS analysis, and related concepts**
- **Economic performance: unemployment, inflation, economic growth**
- **Macroeconomic policies and conflicts**

Where appropriate, help will also be provided for practical skills assessed in a written examination.

Economics A level AQA New Specification
Boards: AQA 7136

Throughout the course there will be Examination practise and the Tutor will Review and analyse and tackle Problem areas with the Students. Examination Tips and how to approach papers effectively as well as time management are an integral part of the course and will be taught as well.

The following topics will be covered:

- **Economic methodology and the economic problem**
- **Price determination in a competitive market**
- **Production, costs and revenue**
- **Competitive and concentrated markets**
- **The market mechanism, market failure and government intervention in markets**
- **The measurement of macroeconomic performance**
- **How the macroeconomy works: the circular flow of income, AD/AS analysis, and related concepts**
- **Economic performance: unemployment, inflation, economic growth**
- **Macroeconomic policies and conflicts**
- **Individual economic decision making**
- **Perfect competition, imperfectly competitive markets and monopoly**
- **The labour market**
- **The distribution of income and wealth: poverty and inequality**
- **Financial markets and monetary policy**
- **Fiscal policy and supply-side policies**
- **The international economy**

Where appropriate, help will also be provided for practical skills assessed in a written examination.

Economics AS Edexcel/A New Specification
Boards: Edexcel/A 8EC0

There will be exam practice throughout the course and suggestions for effective ways to tackle examination questions. The following topics will be covered:

- **The nature of economics**
- **How markets work**
- **Elasticities**
- **Market failure and externalities**
- **Government intervention**
- **Measures of economic performance**
- **Aggregate demand and aggregate supply**
- **Macroeconomic objectives and policy**

Where appropriate, help will also be provided for practical skills assessed in a written examination.

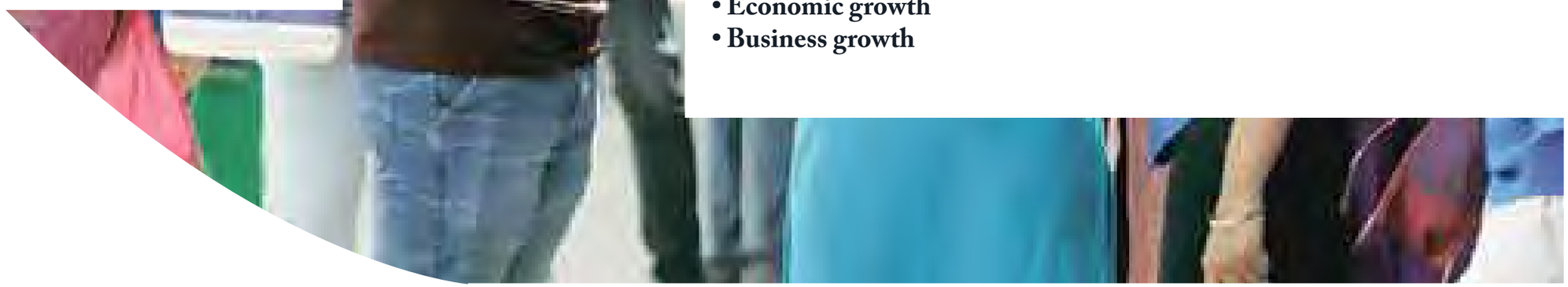
Economics A level Edexcel/A New Specification
Boards: EDEXCEL 9EC0

Throughout the course there will be Examination practise and the Tutor will Review and analyse and tackle Problem areas with the Students. Examination Tips and how to approach papers effectively as well as time management are an integral part of the course and will be taught as well.

The following topics will be covered:

- **The nature of economics**
- **How markets work**
- **Market failure and externalities**
- **Government intervention**
- **Measures of economic performance**
- **Aggregate demand and aggregate supply**
- **Macroeconomic objectives and policy**
- **Elasticities**
- **National income**
- **Economic growth**
- **Business growth**
- **Business objectives**
- **Revenues, costs and profits**
- **Market structures**
- **Labour market**
- **Government intervention**
- **International economics**
- **Poverty and inequality**
- **Emerging and developing economies**
- **The financial sector**
- **Role of the state in the macroeconomy**

Where appropriate, help will also be provided for practical skills assessed in a written examination.



Economics AS OCR New Specification
Boards: OCR H060 only

There will be exam practice throughout the course and suggestions for effective ways to tackle examination questions. The following topics will be covered:

Scarcity and choice
- **How competitive markets work**
- **Market failure and government intervention**
- **Economic policy objectives and indicators of macroeconomic performance**
- **Aggregate demand and aggregate supply**
- **The application of policy instruments**
- **The global context**

Where appropriate, help will also be provided for practical skills assessed in a written examination.

Economics A level OCR New Specification
Boards: OCR H460 only

Throughout the course there will be Examination practise and the Tutor will Review and analyse and tackle Problem areas with the Students. Examination Tips and how to approach papers effectively as well as time management are an integral part of the course and will be taught as well.

The following topics will be covered:

Scarcity and choice
- **How competitive markets work**
- **Market failure and government intervention**
- **Economic policy objectives and indicators of macroeconomic performance**
- **Aggregate demand and aggregate supply**
- **The application of policy instruments**
- **The global context**
- **Competition and market power**
- **Labour market**
- **The financial sector**

Where appropriate, help will also be provided for practical skills assessed in a written examination.

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AS and A2 courses

English Language AS and A2
Boards: Suitable for all boards

Due to the variety of texts and topics available in English Language specifications, we offer 1:1 tuition in this subject. This gives us the flexibility to arrange individual programmes to match students' requirements.

Lessons are offered in 5 x 1.5-hour blocks as follows:

9:00 – 10:30	**Monday to Friday**
11:00 – 12:30	**Monday to Friday**
1:30 – 3:00	**Monday to Friday**
3:30 – 5:00	**Monday to Friday**

Please contact a Course Director to discuss your precise requirements. We will need to know your examination board and details of the material chosen by your school on which you will sit written exams in the summer.

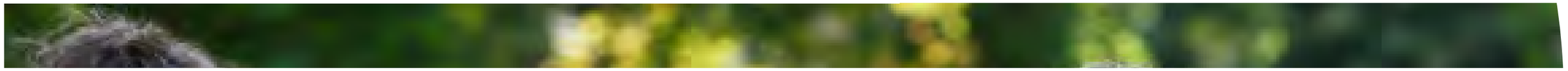
English Literature AS and A2
Boards: All boards offered

Due to the variety of texts available in English Literature specifications, we offer 1:1 tuition in this subject. This gives us the flexibility to arrange individual programmes to match students' requirements.

Lessons are offered in 5 x 1.5-hour blocks as follows:

9:00 – 10:30	**Monday to Friday**
11:00 – 12:30	**Monday to Friday**
1:30 – 3:00	**Monday to Friday**
3:30 – 5:00	**Monday to Friday**

Please contact a Course Director to discuss your precise requirements. We will need to know your examination board and details of the material chosen by your school on which you will sit written exams in the summer.



French AS Skills
Boards: Suitable for all boards

There will be exam practice throughout the course and suggestions for effective ways to tackle examination questions. The following topics will be covered:

- **Oral work**
- **Listening comprehension**
- **Reading comprehension**
- **Writing**

Where appropriate, help will also be provided for practical skills assessed in a written examination.

French A2 Skills
Boards: Suitable for all boards

There will be exam practice throughout the course and suggestions for effective ways to tackle examination questions. The following topics will be covered:

- **Oral work**
- **Listening comprehension**
- **Reading comprehension**
- **Writing**

Where appropriate, help will also be provided for practical skills assessed in a written examination.

Geography AS AQA New Specification
Boards: AQA 7036

There will be exam practice throughout the course and suggestions for effective ways to tackle examination questions.
The following topics will be covered:

Sessions 1, 2 and 3
3 x half day sessions
Human Geography:
Changing Places
Geographical Skills

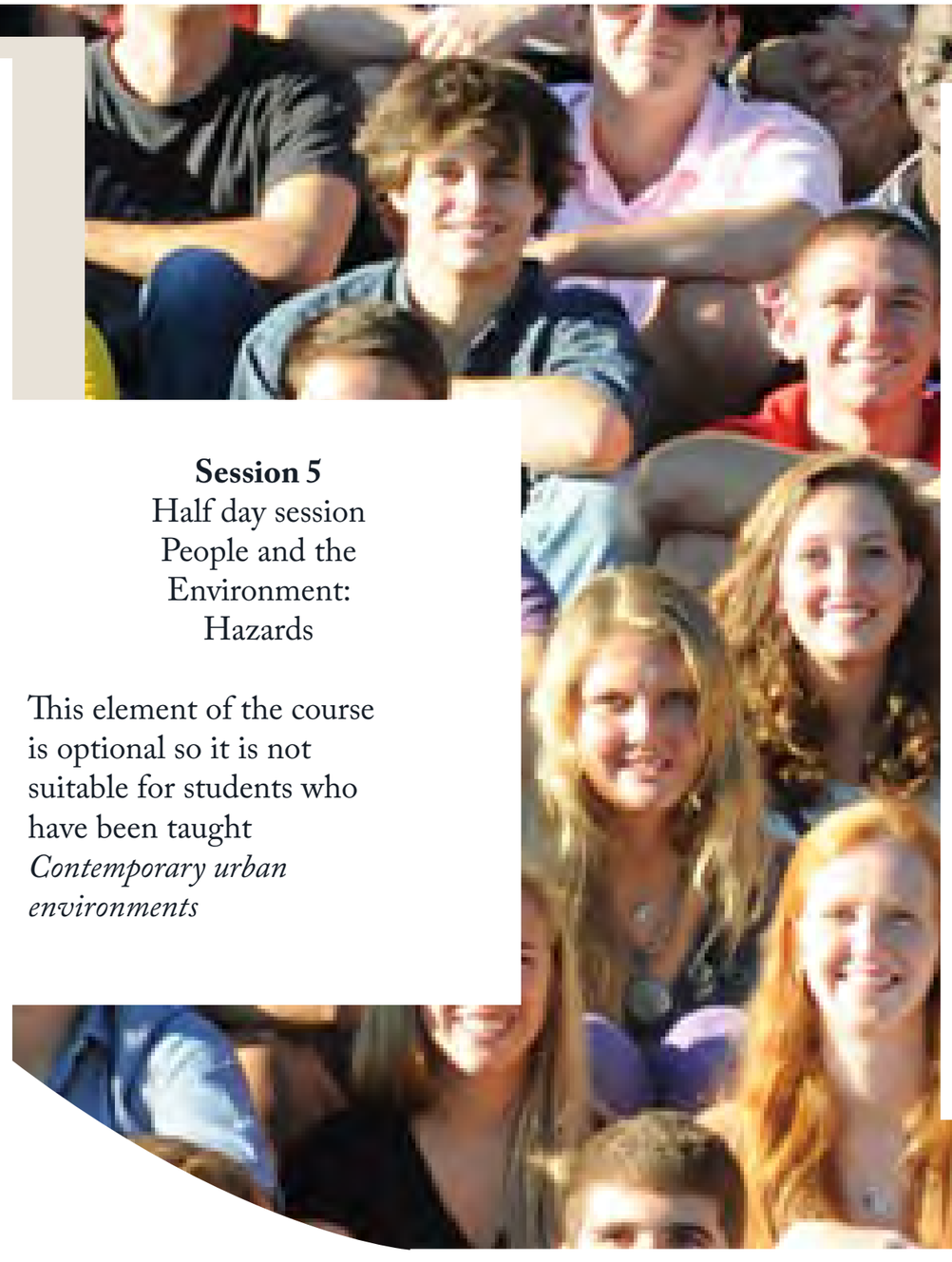
These elements of the specification are compulsory and appropriate for all students

Session 4
Half day session
Physical Geography:
Coastal systems and landscapes

This element of the course is optional so it is not suitable for students who have been taught *Water and carbon cycles or Glacial systems and landscapes*

Session 5
Half day session
People and the Environment:
Hazards

This element of the course is optional so it is not suitable for students who have been taught *Contemporary urban environments*



Geography A2 AQA
Boards: AQA 2031

There will be exam practice throughout the course and suggestions for effective ways to tackle examination questions.
The following topics will be covered:

Sessions 1 and 2
2 x half day sessions

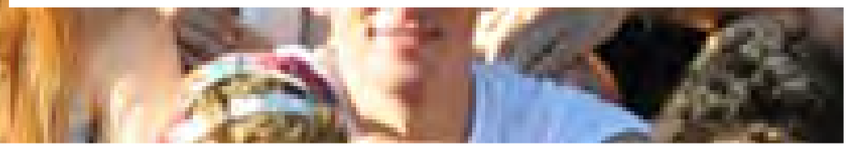
Plate Tectonics and
Associated Hazards

Sessions 3 and 4
2 x half day sessions

Weather and Climate and
Associated Hazards

Session 5
Half day session
Contemporary Conflicts
and Challenges

Where appropriate, help will also be provided for practical skills assessed in a written examination.



Geography AS OCR New Specification
Boards: OCR H081

There will be exam practice throughout the course and suggestions for effective ways to tackle examination questions. The following topics will be covered:

Sessions 1- 4

Landscape Systems
Changing Spaces: Making Places
Geographical Skills
This element of the specification is compulsory and appropriate for all students

Session 5

Hazardous Earth
This element of the course is optional; it is not suitable for students who have been taught Climate Change, Disease Dilemmas, Exploring Oceans or Future of Food

Where appropriate, help will also be provided for practical skills assessed in a written examination.

Geography A2 OCR
Boards: OCR H481

There will be exam practice throughout the course and suggestions for effective ways to tackle examination questions. The following topics will be covered:

Sessions 1
Half day session
Earth Hazards

Session 2
Half day session
Climatic Hazards

Session 3
Half day session
Development and Inequality

Session 4
Half day session
Population and Resources

Session 5
Half day session
Globalisation

Where appropriate, help will also be provided for practical skills assessed in a written examination.

German AS Skills
Boards: Suitable for all boards

There will be exam practice throughout the course and suggestions for effective ways to tackle examination questions. The following topics will be covered:

- **Oral work**
- **Listening comprehension**
- **Reading comprehension**
- **Writing**

Where appropriate, help will also be provided for practical skills assessed in a written examination.

German A2 Skills
Boards:Suitable for all boards

There will be exam practice throughout the course and suggestions for effective ways to tackle examination questions. The following topics will be covered:

- **Oral work**
- **Listening comprehension**
- **Reading comprehension**
- **Writing**

Where appropriate, help will also be provided for practical skills assessed in a written examination.

Government & Politics AS Edexcel
Boards: Edexcel 8GP01

There will be exam practice throughout the course and suggestions for effective ways to tackle examination questions. The following topics will be covered:

Unit 1: People and Politics (6GP01)

- Democracy and Political Participation
- Elections
- Party Policies and Ideas
- Pressure Groups

Unit 2: Governing the UK (6GP02)

- The Constitution
- Parliament
- Prime Minister and Cabinet
- Judges and Civil Liberties

Where appropriate, help will also be provided for practical skills assessed in a written examination.

Government & Politics A2 Edexcel (US Politics Route)
Boards: Edexcel 9GP01

Throughout the course there will be Examination practise and the Tutor will Review and analyse and tackle Problem areas with the Students. Examination Tips and how to approach papers effectively as well as time management are an integral part of the course and will be taught as well.
The following topics will be covered:

Unit 3: Key Themes: Representative Processes in the USA (6GP03 C)

Students will consider how adequate these processes are in terms of participation and democracy.

- Elections and Voting
- Political Parties
- Pressure Groups
- Racial and Ethnic politics

Unit 4: Extended Themes: Governing the USA (6GP04 C)

- The Constitution
- Congress
- Presidency
- The Supreme Court

Where appropriate, help will also be provided for practical skills assessed in a written examination.

History AS and A2
Boards: All boards offered

Due to the variety of topics available in History specifications, we offer 1:1 tuition in this subject. This gives us the flexibility to arrange individual programmes to match students' requirements.

Lessons are offered in 5 x 1.5-hour blocks as follows:

9:00 – 10:30	**Monday to Friday**
11:00 – 12:30	**Monday to Friday**
1:30 – 3:00	**Monday to Friday**
3:30 – 5:00	**Monday to Friday**

Please contact a Course Director to discuss your precise requirements. We will need to know your examination board and details of the material chosen by your school on which you will sit written exams in the summer.

Mathematics AS and A2 AQA
Boards: AQA 5361 and 6361

We offer courses covering the following unit combinations for AQA Mathematics:

- **Core 1 & Core 2 (C1+C2)**
- **Core 3 & Core 4 (C3+C4)**
- **Mechanics 1 and/or Statistics 1 (M1+S1)**

Core Units:
C1+C2 only
C3+C4 only
C1+C2+C3+C4

Applied units
Mechanics (M1) and Statistics (S1) can be studied either on their own or in combination with the core units, depending on the student's timetable. Applied units are taught over a five day week, with 1.5 hours of contact time per unit per day.

C1+C2
- C1 (MPC1): Algebra; Co-ordinate geometry; Integration; Differentiation
- C2 (MPC2): Algebra and functions; Sequences and series; Trigonometry; Exponentials and logarithms; Differentiation; Integration

C3+C4
- C3 (MPC3): Algebra and functions; Trigonometry; Exponentials and logarithms; Differentiation; Integration; Numerical methods
- C4 (MPC4): Algebra and functions; Co-ordinate geometry; Sequences and series; Trigonometry; Exponentials and logarithms; Differentiation and integration; Vectors

M1+S1
- M1 (MM1): Mathematical modelling; Kinematics in one and two dimensions; Statics and forces; Momentum; Newton's laws of motion; Connected particles; Projectiles
- S1 (MS1): Numerical measures; Probability; Binomial distribution; Normal distribution; Estimation; Correlation and regression

Where appropriate, help will also be provided for practical skills assessed in a written examination.

Mathematics & F Maths AS and A2 Edexcel Boards:
Edexcel 8371 / 8372 / 8373 and 9371 / 9372 / 9373 / 9374

We offer courses covering the following unit combinations for AQA Mathematics:

- **Core 1 & Core 2 (C1+C2)**
- **Core 3 & Core 4 (C3+C4)**
- **Mechanics 1 and/or Statistics 1 (M1+S1)**

Core Units:
C1+C2 only
C3+C4 only
C1+C2+C3+C4

Applied units
Mechanics (M1) and Statistics (S1) can be studied either on their own or in combination with the core units, depending on the student's timetable. Applied units are taught over a five day week, with 1.5 hours of contact time per unit per day.

C1+C2
• Algebra and functions; Coordinate geometry in the (x, y) plane; Sequences and series;
Differentiation; Integration
• Algebra and functions; Coordinate geometry in the (x, y) plane; Sequences and series;
Trigonometry; Exponentials and logarithms; Differentiation; Integration

C3+C4
• Algebra and functions; Trigonometry; Exponentials and logarithms; Differentiation; Numerical
methods
• Algebra and functions; Coordinate geometry in the (x, y) plane; Sequences and series; Differentiation; Integration; Vectors

M1+S1
• Mathematical models in mechanics; Vectors in mechanics; Kinematics of a particle moving in
a straight line; Dynamics of a particle moving in a straight line or plane; Statics of a particle; Moments
• Mathematical models in probability and statistics; Representation and summary of data; Probability; Correlat

Where appropriate, help will also be provided for practical skills assessed in a written examination.

Mathematics & F Maths New Linear AS and A2
OCR Boards: OCR H230 H240 and H235/ H245/ H635 / H645

We offer courses covering the following unit combinations for AQA Mathematics:

- **Core 1 & Core 2 (C1+C2)**
- **Core 3 & Core 4 (C3+C4)**
- **Mechanics 1 and/or Statistics 1 (M1+S1)**

Core Units:
C1+C2 only
C3+C4 only
C1+C2+C3+C4

Applied units
Mechanics (M1) and Statistics (S1) can be studied either on their own or in combination with the core
units, depending on the student's timetable. Applied units are taught over a five day week, with 1.5
hours of contact time per unit per day.
Religious, political, social and cultural context

C1+C2
Indices and surds; Polynomials; Coordinate geometry and graphs; Differentiation
• Trigonometry; Sequences and series; Algebra; Integration

C3+C4
• Algebra and functions; Trigonometry; Differentiation and integration; Numerical methods
• Algebra and graphs; Differentiation and integration; Differential equations; Vectors

M1+S1
• Force as a vector; Equilibrium of a particle; Kinematics of motion in a straight line; Newton's laws of motion; Linear momentum
• Representation of data; Probability; Discrete random variables; Bivariate data

Where appropriate, help will also be provided for practical skills assessed in a written examination.

Mathematics AS and A2 OCR MEI Boards: OCR MEI H630 and H640 and MEI F Maths - H635 H645

We offer courses covering the following unit combinations for AQA Mathematics:

- **Core 1 & Core 2 (C1+C2)**
- **Core 3 & Core 4 (C3+C4)**
- **Mechanics 1 and/or Statistics 1 (M1+S1)**

Core Units:
C1+C2 only
C3+C4 only
C1+C2+C3+C4

Applied units
Mechanics (M1) and Statistics (S1) can be studied either on their own or in combination with the core
units, depending on the student's timetable. Applied units are taught over a five day week, with 1.5 hours of contact time per unit per day.

C1+C2
- Mathematical processes; Algebra; Co-ordinate geometry; Polynomials; Curve sketching
- Algebra; Sequences and series; Trigonometry; Calculus; Curve sketching

C3+C4
- Proof; Exponentials and natural logarithms; Functions; Calculus
- Algebra; Trigonometry; Parametric equations; Calculus; Vectors; Comprehension

M1+S1
- Force as a vector; Equilibrium of a particle; Kinematics of motion in a straight line; Newton's laws of motion; Linear momentum
- Representation of data; Probability; Discrete random variables; Bivariate data

Where appropriate, help will also be provided for practical skills assessed in a written examination.

Physics AS AQA New Specification Boards: AQA 7407 and 7408

Throughout the course there will be Examination practise and the Tutor will Review and analyse and tackle Problem areas with the Students. Examination Tips and how to approach papers effectively as well as time management are an integral part of the course and will be taught as well.

The following topics will be covered:

- **Measurements and their errors**
- **Particles and radiation**
- **Waves**
- **Mechanics and materials**
- **Electricity**

Where appropriate, help will also be provided for practical skills assessed in a written examination.

Philosophy AS AQA Boards: AQA 7172/1 and 7172/2

There will be exam practice throughout the course and suggestions for effective ways to tackle examination questions.

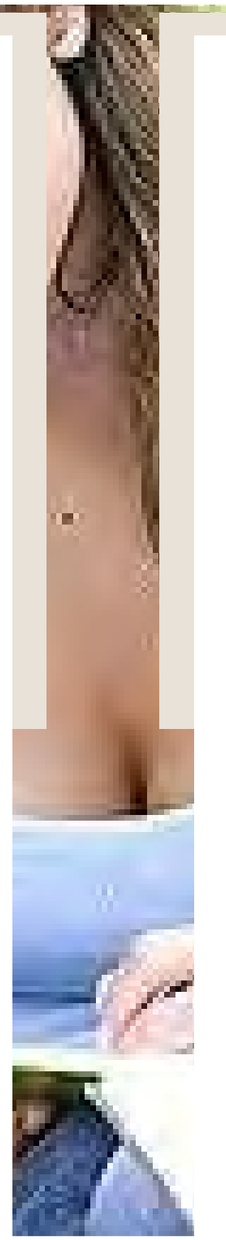
The following topics will be covered:

Epistemology

• **Concept empiricism:** the view that all concepts are derived from experience and issues
arising from this view.
• **Knowledge empiricism:** the view that all synthetic knowledge is a posteriori; all a priori
knowledge is (merely) analytic and issues arising from this view.
• **The tripartite view:** terminology and the view that justified true belief is necessary and
sufficient for propositional knowledge; issues and responses to this view.
• **Direct realism:** the view that immediate objects of perception are mind-independent objects
and their properties; issues and responses to this view.
• **Indirect realism:** the view that immediate objects of perception are mind-dependent objects
that are caused by and represent mind-independent objects; issues and responses to this view.
• **Berkeley's idealism:** the view that immediate objects of perception (i.e. ordinary objects
such as tables, chairs, etc.) are mind-dependent objects; issues and responses to this view.

Philosophy of Religion

• **The concept of God:** God as omniscient, omnipotent, supremely good, and either timeless
(eternal) or within time (everlasting) and the meaning(s) of these divine attributes. Issues with claiming that God has these attributes, either singly or in combination.
• **Ontological arguments, including those formulated by:** Anselm; Descartes; Leibniz; Malcolm; Plantinga; issues with these arguments.
• **The argument from design:** arguments from purpose and regularity, including those formulated by: Paley; Swinburne; issues with these arguments.
• **The cosmological argument:** including those formulated by: Aquinas' Five Ways (first three); Descartes; the Kalam argument; issues with these arguments.
• **The problem of evil:** how to reconcile God's omnipotence, omniscience and supreme goodness with the existence of physical/moral evil. Responses to the issue and issues arising from those responses.
• Religious language: cognitivist and non-cognitivist accounts of religious language (includin



Philosophy A2 AQA Boards: AQA 7172/1 and 7172/1

There will be exam practice throughout the course and suggestions for effective ways to tackle examination questions.

The following topics will be covered:

Ethics

Utilitarianism: the maximisation of utility, including: the question of what is meant by 'pleasure', including Mill's higher and lower pleasures; how this might be calculated, including
Bentham's utility calculus; forms of utilitarianism: act and rule utilitarianism; preference
utilitarianism; issues with these arguments.
• Kantian deontological ethics: what maxims can be universalised without contradiction,
including: the categorical and hypothetical imperatives; the categorical imperative – first and
second formulations; issues with these arguments.
• Aristotle's virtue ethics: the development of a good character, including "the good" pleasure, the function argument and eudaimonia; the role of education/habituation in
developing a moral character; voluntary and involuntary actions and moral responsibility; the
doctrine of the mean and Aristotle's account of vices and virtues; issues with these arguments.
• Application of the theories above to the following issues: crime and punishment; war;
simulated killing (within computer games, plays, films, etc); the treatment of animals, deception and the telling of lies.
• Cognitivism: ethical language makes claims about reality which are true or false (factstating);
moral realism; ethical language makes claims about mind-independent reality that
are true.
• Non-cognitivism: ethical language does not make claims about reality which are true or false
(fact-stating).

Philosophy of Mind

• Substance Dualism: the mind is distinct from the physical. The indivisibility and conceivability argument for substance dualism (Descartes); issues with these arguments.
• Property dualism: The 'philosophical zombies' argument for property dualism; the 'knowledge'/Mary argument for property dualism based on qualia (Frank Jackson); issues with these arguments; issues with these arguments.
• The issues of causal interaction and the problem of other minds for dualism.
• Logical/analytical behaviourism: all statements about mental states can be analytically reduced without loss of meaning to statements about behaviour; issues with these arguments.
• Mind–brain type identity theory: all mental states are identical to brain states issues with these arguments.
• Functionalism: all mental states can be reduced to functional roles which can be multiply
realised; issues with these arguments.
• Eliminative materialism: some or all mental states do not exist (folk-psychology is false or at
least radically misleading); issues with these arguments.

Physics AS and A level AQA New Specification Boards: AQA 7407 and 7408

There will be exam practice throughout the course and suggestions for effective ways to tackle examination questions. The following topics will be covered:

- **Measurements and their errors**
- **Particles and radiation**
- **Waves**
- **Mechanics and materials**
- **Electricity**
- **Further mechanics and thermal physics**
- **Fields and their consequences**
- **Nuclear physics**

Where appropriate, help will also be provided for practical skills assessed in a written examination.

Physics AS and A level OCR/B New Specification Boards: OCR/B H157 and H557

Throughout the course there will be Examination practise and the Tutor will Review and analyse and tackle Problem areas with the Students. Examination Tips and how to approach papers effectively as well as time management are an integral part of the course and will be taught as well.

The following topics will be covered:

- **Fundamental Data Analysis**
- **Imaging and signalling**
- **Sensing**
- **Mechanical properties of materials**
- **Waves and quantum behaviour**
- **Space, time and motion**

Where appropriate, help will also be provided for practical skills assessed in a written examination.

Physics A level OCR/B New Specification
Boards: OCR/B H557

There will be exam practice throughout the course and suggestions for effective ways to tackle examination questions. The following topics will be covered:

- **Fundamental data analysis**
- **Imaging and signalling**
- **Sensing**
- **Mechanical properties of materials**
- **Waves and quantum behaviour**
- **Space, time and motion**
- **Creating models**
- **Out into space**
- **Our place in the universe**
- **Matter: very simple**
- **Matter: hot or cold**
- **Electromagnetism**
- **Charge and field**
- **Probing deep into matter**
- **Ionising radiation and risk**

Where appropriate, help will also be provided for practical skills assessed in a written examination.

Physics AS OCR/A New Specification
Boards: OCR/A H157

Throughout the course there will be Examination practise and the Tutor will Review and analyse and tackle Problem areas with the Students. Examination Tips and how to approach papers effectively as well as time management are an integral part of the course and will be taught as well.
The following topics will be covered:

- **Mechanics (1):** Resolving and adding vectors, velocity and acceleration, projectile motion, F= ma, terminal velocity, moments, Archimedes' principle.
- **Mechanics (2):** Work, energy, power, efficiency, Newton's laws, momentum, collisions, deformation of solids.
- **Electric circuits:** Kirchhoff's laws, EMF, mean drift velocity, potential dividers, LDR, thermistors.
- **Waves and quantum physics:** Refraction, polarisation, diffraction, interference, standing waves, Young double slit, diffraction grating, EM waves, photoelectric effect, line spectra, de Broglie wavelength

Where appropriate, help will also be provided for practical skills assessed in a written examination.

Physics A level OCR/A New Specification
Boards: OCR/A H556

There will be exam practice throughout the course and suggestions for effective ways to tackle examination questions.

The following topics will be covered:

- **Mechanics (1):** Resolving and adding vectors, velocity and acceleration, projectile motion, F= ma, terminal velocity, moments, Archimedes' principle.
- **Mechanics (2):** Work, energy, power, efficiency, Newton's laws, momentum, collisions, deformation of solids.
- **Electric circuits:** Kirchhoff's laws, EMF, mean drift velocity, potential dividers, LDR, thermistors.
- **Waves and quantum physics:** Refraction, polarisation, diffraction, interference, standing waves, Young double slit, diffraction grating, EM waves, photoelectric effect, line spectra, de Broglie wavelength.
- **Thermal physics and gases:** Temperature, internal energy, absolute zero, heat capacity, latent heat, kinetic theory of gases, liquids and solids.
- **Circular motion and oscillations:** Angular velocity, centripetal force, simple and damped harmonic motion, resonance.
- **Gravity, stars and cosmology:** Newton's law of gravitation, Kepler's laws, gravitational potential, HR diagram, Wein's and Stefan's laws, Doppler effect, Hubble's law, Big Bang theory.
- **Capacitors and electric fields:** Capacitors in series and parallel, charging and discharging capacitors, permittivity, Coulomb's law, uniform and radial electric fields, electric potential.
- **Particle physics:** Alpha particle scattering, quark-lepton model, radioactivity, carbon-dating, nuclear fission and fusion, binding energy, E=mc2.
- **Magnetism and medical imaging:** Magnetic field patterns, Fleming's left hand rule, charged particles in magnetic fields, Faraday's and Lenz's laws, transformers, X-rays, CT scan, gamma camera, PET scan, ultrasound imaging.

Psychology AS AQA New Specification
Boards: AQA 7181

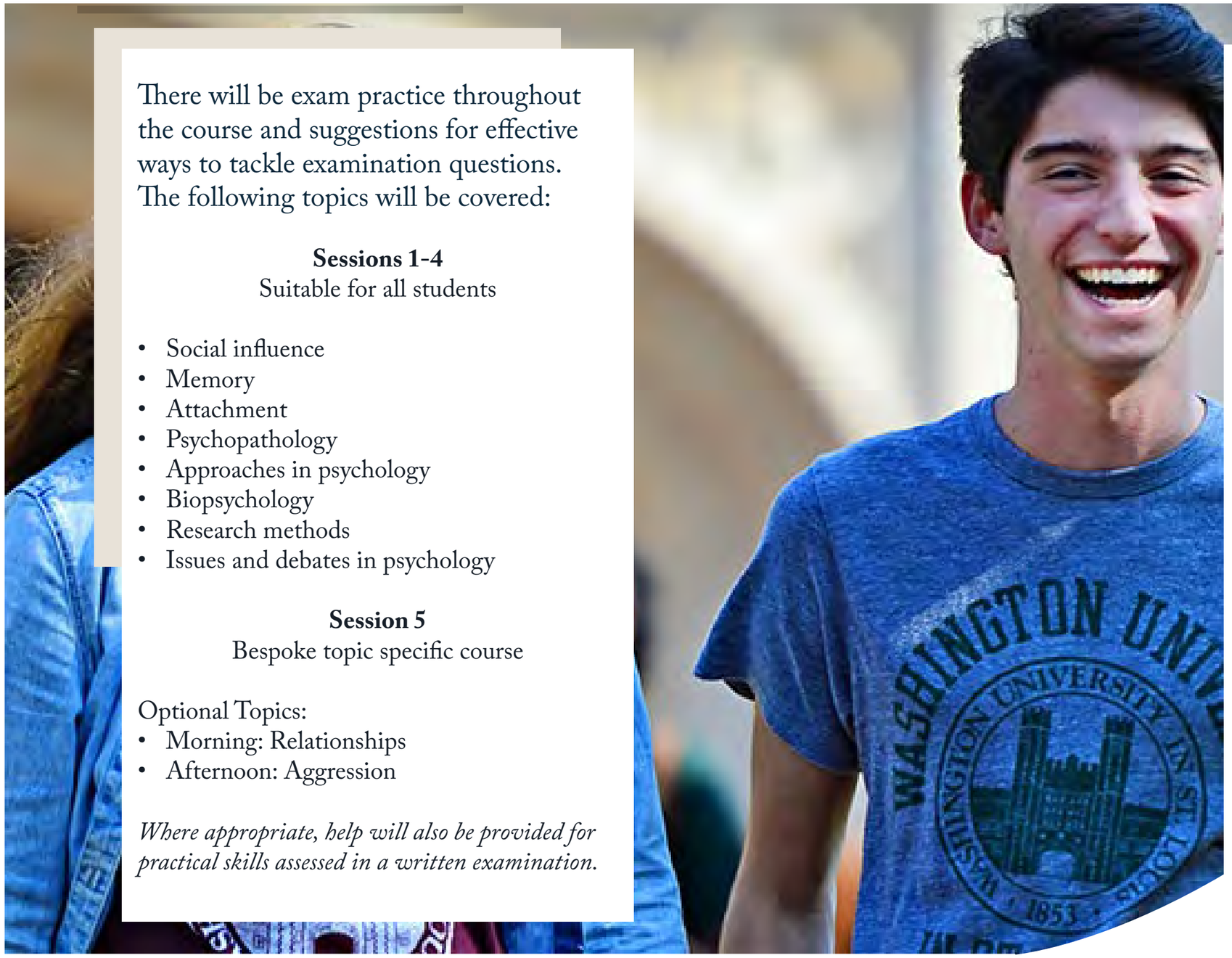
Throughout the course there will be Examination practise and the Tutor will Review and analyse and tackle Problem areas with the Students. Examination Tips and how to approach papers effectively as well as time management are an integral part of the course and will be taught as well.

The following topics will be covered:

- **Social influence**
- **Memory**
- **Attachment**
- **Psychopathology**
- **Approaches in psychology**
- **Biopsychology**
- **Research methods**

Where appropriate, help will also be provided for practical skills assessed in a written examination.

Psychology A level AQA New Specification Boards: AQA 7182 and Psychology Edexcel AS / A Level 8PS0 / 9PS0



There will be exam practice throughout the course and suggestions for effective ways to tackle examination questions. The following topics will be covered:

Sessions 1-4
Suitable for all students

- Social influence
- Memory
- Attachment
- Psychopathology
- Approaches in psychology
- Biopsychology
- Research methods
- Issues and debates in psychology

Session 5
Bespoke topic specific course

Optional Topics:
- Morning: Relationships
- Afternoon: Aggression

Where appropriate, help will also be provided for practical skills assessed in a written examination.

Religious Studies AS OCR New Specification Boards: OCR H173

Please note that the Developments in religious thought topic will be covered in relation to Christianity only.

The following topics will be covered:

Philosophy of religion
- Ancient philosophical influences
- The nature of the soul, mind and body
- Arguments about the existence or non-existence of God
- The nature and impact of religious experience
- The challenge for religious belief of the problem of evil

Religion and ethics
- Normative ethical theories
- The application of ethical theory to two contemporary issues of importance

Developments in religious thought
- Religious beliefs, values and teachings, their interconnections and how they vary historically and in the contemporary world
- Sources of religious wisdom and authority
- Practices which shape and express religious identity, and how these vary within a tradition

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Religious Studies AS and A2 OCR
Boards: OCR H172 and H572

There will be exam practice throughout the course and suggestions for effective ways to tackle examination questions.

The following topics will be covered:

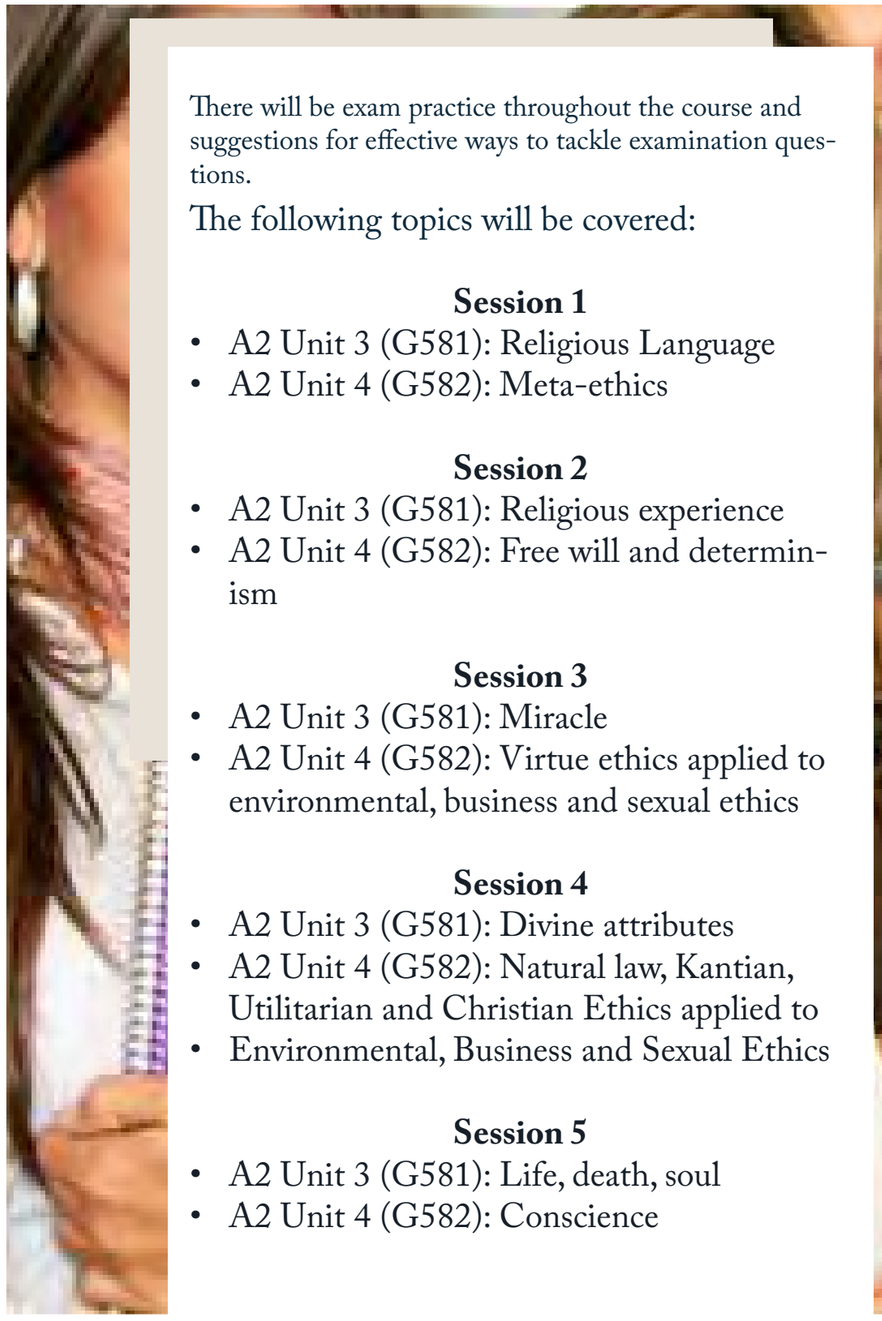
Session 1
- A2 Unit 3 (G581): Religious Language
- A2 Unit 4 (G582): Meta-ethics

Session 2
- A2 Unit 3 (G581): Religious experience
- A2 Unit 4 (G582): Free will and determinism

Session 3
- A2 Unit 3 (G581): Miracle
- A2 Unit 4 (G582): Virtue ethics applied to environmental, business and sexual ethics

Session 4
- A2 Unit 3 (G581): Divine attributes
- A2 Unit 4 (G582): Natural law, Kantian, Utilitarian and Christian Ethics applied to
- Environmental, Business and Sexual Ethics

Session 5
- A2 Unit 3 (G581): Life, death, soul
- A2 Unit 4 (G582): Conscience



Spanish AS Skills
Boards: Suitable for all boards

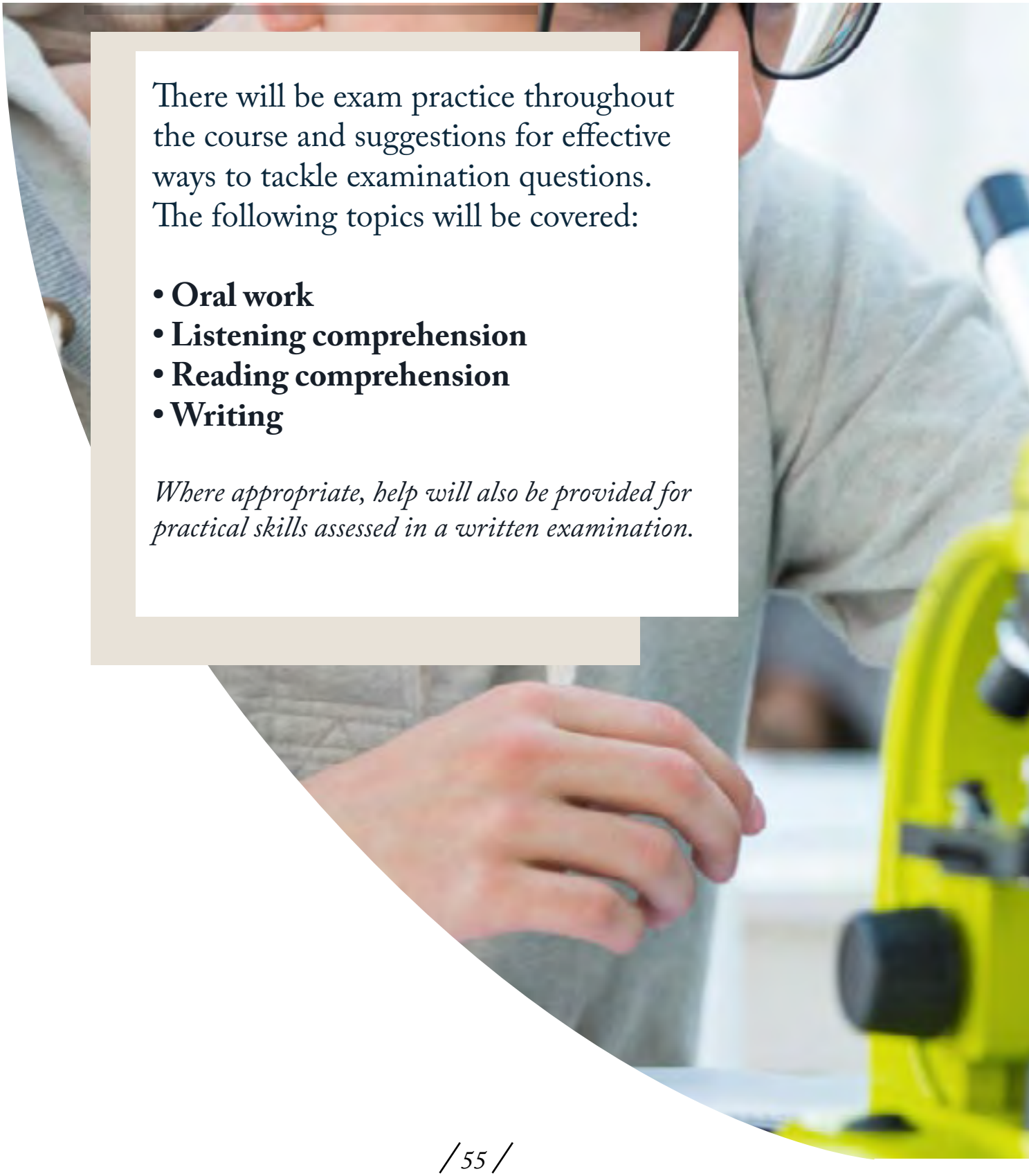
There will be exam practice throughout the course and suggestions for effective ways to tackle examination questions.

The following topics will be covered:

- **Oral work**
- **Listening comprehension**
- **Reading comprehension**
- **Writing**

Where appropriate, help will also be provided for practical skills assessed in a written examination.

Spanish A2 Skills
Boards: Suitable for all boards



There will be exam practice throughout the course and suggestions for effective ways to tackle examination questions. The following topics will be covered:

- **Oral work**
- **Listening comprehension**
- **Reading comprehension**
- **Writing**

Where appropriate, help will also be provided for practical skills assessed in a written examination.

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