

YEAR 10

Dear Parents and Carers,

This is an overview of the topics that your child will be studying in the second half term of Year 10 (November and December). If you have any queries about a subject, please contact the Curriculum Directors of each faculty (contact information below).

Subject	The topics that your child will be studying	An outline of the course over the half term
Maths	Foundation: Number Essentials Cross Over: Algebra Essentials Higher: Right Angle Triangles	<i>Foundation: Working with fractions and decimals, prime factor decomposition and laws of indices.</i> <i>Cross Over: Expanding and factorising expressions. Forming and solving equations. Plotting linear graphs.</i> <i>Higher: An in depth look at Pythagoras and right-angle trigonometry</i>
English	Persuasive Writing 'A Christmas Carol'	<i>Students will build on their skills of rhetoric from Key Stage 3 to refine the art of persuasion in their writing.</i> <i>Students will learn the plot, themes and characters of Charles Dickens' novella whilst developing their analytical essay writing skills.</i>
Science	Waves & Electromagnetism Genetics and evolution Chemical calculations	<ul style="list-style-type: none"> • <i>Explores the relationship between electricity and magnetism, including electromagnetic induction and the behaviour of charged particles in magnetic fields.</i> • <i>Studies the role of genetics in evolution, including inheritance patterns, mutations, and genetic variation.</i> • <i>Examines mathematical techniques used in chemical analysis, including stoichiometry, molarity, and percentage yield calculations.</i>
Geography	Climate Change and Ecosystems	<i>Students will continue their GCSE course by studying the causes, effects and responses to climate change. This then leads into the ecosystem topic, which explores how global atmospheric circulation affects ecosystems and the variety of global ecosystems that exist. (Unit 1 – Section A and B).</i>
History	Medicine in Britain (Paper 1) Pearson Edexcel.	<i>Students study what people thought caused disease in the period 1700-1900 and 1900- present, along with the treatments they used and methods on how to prevent illnesses and disease.</i> <ul style="list-style-type: none"> • <i>Key Topic 3 – Industrial Medicine.</i> • <i>Key Topic 4 – Modern Medicine.</i>
Religious Education	Muslim Beliefs – Paper 1	<i>Students will study key Muslim beliefs such as: nature of Allah, tawhid, angels, predestination, life after death, prophethood and imamate and the holy books.</i>
German	German Unit 1 – Identity and relationships with others German Unit 2 – Healthy living and lifestyle	<i>Students will finish the unit 1 topic on Identity and relationships with an end of unit assessment. They will be tested on all four skills. They will then begin the next unit on Healthy living where they will be able to talk about why it is important to live a healthy lifestyle.</i>

Sport Studies (GCSE PE)	Component 1 – Fitness and Body Systems Applied Anatomy & Physiology Movement analysis Component 3 Practical Performance- Badminton	<p>Students will study the Structure and function of the Musculo – Skeletal System Levers, Movements in sport, Planes and Axis</p> <p>Students will demonstrate skills and techniques in Badminton</p>
Art	Natural forms	<p>This half-term year 10 will be introduced to GCSE art and begin coursework. Their first project will last until February half-term. In this project students will focus on the theme of natural forms. In this project they will learn a variety of skills and techniques which will improve their independence and confidence.</p>
Drama	Noughts and Crosses	<p>Students will study the original performance conditions of their set text Nought and Crosses. They will learn about the themes, plot and characters considering a range of staging techniques. Students will begin the process of learning how to answer the staging questions for component 3 written exam as well as creating their own designs for a production of the text</p>
Music	Students will be working on three areas, performing, composing and theory	<p>Composing: Students explore musical devices used in composing to create their own composition.</p> <p>Theory- AOS4 Popular Music: AOS4 for the Eduqas exam is Popular music. This unit aims to give an overview of what the students need to know for AOS4. They will learn about how popular music has changed through time and how to answer exam questions for this Area Of Study.</p> <p>Performing: Students work on developing solo and ensemble pieces.</p>
Creative Media (IT)	R093 Topic 2 R093 Topic 3	<p>This unit investigates the factors that influence the design of multimedia products. The focus of the unit covers design considerations made for reasons of purpose, client or audience. During the unit students will also gain understanding of how market research (both primary and secondary) is beneficial in instructing that design. The unit also seeks to improve students' awareness of media codes they will have seen in cinema and TV so they can understand the language of media.</p> <p>This unit looks into the pre-production phase of media production. The primary objectives are to provide students with a thorough understanding of the pre-production process and to equip them with the skills necessary to effectively plan and organise media projects.</p>
Design and Technology	<ul style="list-style-type: none"> • Developments in new materials • Systems approach to designing • The work of others 	<p><u>Developments in new materials</u> learners should be aware of developments in new materials. Modern materials, smart materials, composite materials, technical textiles.</p> <p><u>Systems approach to designing.</u> Inputs, processes, outputs.</p> <p><u>The work of others</u> learners should investigate, analyse and evaluate the work of past and present designers and companies to inform their own</p>

		<p><i>designing How to select and use specialist tools and equipment, including hand tools, machinery, digital design and manufacture, appropriate for the material and/or task to complete quality outcomes. How to use them safely to protect themselves and others from harm. How to select and use specialist techniques and processes appropriate for the material and/or task and use them to the required level of accuracy in order to complete quality outcomes.</i></p>
Hospitality and Catering	Nutrition different types of health and safety	<ul style="list-style-type: none"> • <i>Students are going to continue looking at the structure of the hospitality and catering industry with a focus on the different types of jobs and the environments / conditions in which they work in.</i> • <i>They will continue to explore nutrition, with a focus on how cooking methods can impact on nutritional values.</i> • <i>They will also undertake several practical lessons that will involve high skill dishes to develop their skills.</i> • <i>Students will explore the factors that contribute to the success of the hospitality and catering industry.</i> • <i>They will also be introduced to the health and safety aspects of the hospitality and catering industry including the laws and responsibilities of food handlers.</i> • <i>They will also undertake several practical lessons that will involve high skill dishes to develop their skills.</i>
Enterprise	<ul style="list-style-type: none"> • Understanding competitor behaviour (B3) • Suitability of market research methods (B4) • Task 2 mock using PSA Sample • PEST (Political, Economic, Social, Technological) Analysis (C1) • SWOT (Strengths, Weaknesses, Opportunities, Threats) Analysis (C2) 	<p><i>You will explore why enterprises are successful, looking at the impact of factors both inside and outside the control of the enterprise, and investigate ways in which situational analyses can be used to support decision making. This component will give you an understanding of the factors that contribute to a successful enterprise. You will develop transferable skills, such as research and data analysis, which will support your progression to Level 2 or Level 3 vocational or academic qualifications.</i></p>
Health and Social Care	Human lifespan development	<p><i>How we develop physically, intellectually, socially and emotionally in middle and late adulthood. How different factors affect our development.</i></p>
Core Physical Education (non-exam)	<p>Students will be studying a Mastery Curriculum developing Motor Competence, rules strategies tactics and healthy participation, building upon their KS3 knowledge.</p> <p>Students Study: Basketball, Badminton, Invasion games, Fitness.</p>	<p><i>Basketball – Shooting, Passing, Dribbling and Attacking/Defensive tactics, Rules, Strategies and Tactics</i></p> <p><i>Badminton - Stance and Movement, Serve, Forehand/Backhand, Rules, Strategies and Tactics</i></p> <p><i>Invasion games - Passing and receiving, Movement, Shooting and Defending, Rules, Strategies and Tactics</i></p> <p><i>Fitness - How to lead a Health active lifestyle</i></p>

Curriculum Directors

Faculties	Subjects	Curriculum Directors
Communications	English and Modern Foreign Languages	Mrs Spalding: kspalding@oiea.co.uk
Mathematics and IT	Geography, History and RE	Mrs Magill: amagill@oiea.co.uk Mr Cotton: ocotton@oiea.co.uk
Science and Sport	Science, Core PE	Mr Cross: scross@oiea.co.uk
Humanities	Mathematics and IT	Mr Wyke: pwvyke@oiea.co.uk
Creative	Art, DT, Food, Drama, Music	Mr Underhill: bunderhill@oiea.co.uk

Yours faithfully

Mr R Siddons

Assistant Principal – Quality of Education