

Year	Term 1	Term 2	Term 3
9	<p>Unit Title – Exploration of Architecture Area of Focus – principles of good architecture</p> <p>Students will be learning:</p> <ul style="list-style-type: none"> <li>• What makes good architecture</li> <li>• Investigating existing Architecture and buildings around the world</li> <li>• Exploring different types of architecture through out history</li> <li>• Roles and Responsibilities of an Architect</li> </ul>	<p>Unit Title – Commonwealth Games Stadium Area of Focus – designing and 3D modelling</p> <p>Students will be learning:</p> <ul style="list-style-type: none"> <li>• What a Location Study is</li> <li>• How to analyse a site and its viability for use</li> <li>• How to design inclusively</li> <li>• What Sustainable materials are</li> <li>• What a floor plan is and why they are used</li> <li>• How to create a 3D scaled model of their stadium</li> </ul>	<p>Unit Title – Eco Classroom Area of Focus – three pillars of Sustainability and CAD</p> <p>Students will be learning:</p> <ul style="list-style-type: none"> <li>• What an Eco Classroom is</li> <li>• How to analyse a design brief</li> <li>• What the three pillars of sustainability is in the construction industry</li> <li>• How to use Autodesk software TinkerCad</li> <li>• How to draw accurately in 3D and how to draw elevations</li> </ul>
10	<p>Unit Title – Defining a Sustainable Construction Project Area of Focus – Understand a Clients Needs and Formulating a Project Brief</p> <p><b>**Students start their coursework which is broken down into four main units**</b></p> <p>Students will be learning:</p> <ul style="list-style-type: none"> <li>• How to produce an international, regional and local location study</li> <li>• What a stakeholder is and how designing must reflect users’ needs</li> <li>• How to calculate benchmark costings and work out rooming sizes based on industry recommendations</li> </ul>	<p>Unit Title – Defining a Sustainable Construction Project Area of Focus – Understanding the constraints of a Project and drafting a Plan</p> <p>Students will be learning:</p> <ul style="list-style-type: none"> <li>• How to establish a project vision</li> <li>• What sustainability aspirations are and how they can be achieved in the designing and construction of a project</li> <li>• What constraints can arise and how to present solutions during planning stages</li> <li>• The stages of RIBA and how they link to the development of a project.</li> </ul>	<p>Unit Title – Developing a Sustainable Construction Project Area of Focus – Developing a feasible project proposal</p> <p>Students will be learning:</p> <ul style="list-style-type: none"> <li>• Presentation of ideas through 3D drawing techniques and industry used CAD software</li> <li>• What Building Information Modelling (BIM) is and how it is used in the development of a project.</li> <li>• How to perform an energy analysis using software</li> <li>• The principles and application of planning permission and how this affects a new project</li> </ul>
11	<p>Unit Title – Developing a Sustainable Construction Project Area of Focus – Supporting the Development of a Project</p> <p>Students will be learning:</p> <ul style="list-style-type: none"> <li>• The importance of compatibility between existing infrastructure and project proposals</li> <li>• What environmental and climate change reduction strategies are</li> <li>• How to establish health and safety regulations whilst working on a project and their importance</li> </ul>	<p>Unit Title – Delivering a Sustainable Construction Project Area of Focus – Developing an understanding of Technical Issues and how to avoid mistakes</p> <p>Students will be learning:</p> <ul style="list-style-type: none"> <li>• How to identify potential problems early on in a project to take appropriate action</li> <li>• What Roles and responsibilities within the designing, engineering and construction industry are needed in a project</li> <li>• The importance of developing a budget and time plan for a project</li> <li>• How to test a proposed design through 3D modelling on CAD</li> </ul> <p><b>**Students will also be taking their exam in January of year 11 as part of this course**</b></p>	<p>Unit Title – Evaluating a Sustainable Construction Project Area of Focus – Testing a final design against original intentions</p> <p>Students will be learning:</p> <ul style="list-style-type: none"> <li>• What stage 7 of RIBA is and what user can do to optimise performance of proposed project</li> <li>• Evaluate how well final outcomes meet original intentions</li> <li>• How to use feedback as a basis for future projects within the designing and construction industry</li> <li>• How to use data to forecast long term performance of a project</li> </ul> <p><b>**All coursework is aimed to be finished for the first few weeks back after the easter break.**</b></p> <p><b>**Students who did not pass the January exam are entered for the summer series**</b></p>