

Subject: DEC! (Design, Engineer, Construct!)

Year 7	DEC Rotation	D&T Rotation	Textiles Rotation	Food Rotation 1	Food Rotation 2
Unit & length	Eco-Cafe Project 8 weeks				
Curriculum outline	Students will learn about the built environment, through the process of designing an Eco-Cafe. Students will learn about the different roles involved in designing and constructing a building and the importance of sustainable design. Students will also develop their drawing and CAD 'Computer Aided Design' skills.				
Assessment/s	<p>Portfolio (worth 50%) 8 weeks, 16 marks available.</p> <p>Exam (worth 50%): 1 x 40 minute exam, 32 marks available.</p> <p>Quizzes/Exam Practice: Weekly key vocabulary and practice exam questions.</p> <p>Going Green: Acting on feedback in portfolio & exam practice.</p>				

Year 8	DEC Rotation	D&T Rotation	Textiles Rotation	Food Rotation 1	Food Rotation 2	Food Rotation 3
Unit & length	DEC Award: A Home for Everyone 6 weeks					
Curriculum outline	Students will learn about the built environment, by completing the DEC Award, 'A Home for Everyone'. Students will develop necessary knowledge and skills for the different roles and stages involved in designing and constructing a building, as well as learning the importance of inclusive design. Students will also develop their drawing and CAD 'Computer Aided Design' skills.					
Assessment/s	<p>Portfolio (worth 50%) 6 weeks, 24 marks available.</p> <p>Exam (worth 50%): 1 x 60 minute exam, 48 marks available.</p> <p>Quizzes/Exam Practice: Weekly key vocabulary and practice exam questions.</p> <p>Going Green: Acting on feedback in portfolio & exam practice.</p>					

Year 9	DEC Rotation	D&T Rotation	Textiles Rotation	Food Rotation 1	Food Rotation 2	Food Rotation 3
Unit & length	BIM Software Training & DEC portfolio 6 weeks					
Curriculum outline	Students will learn about the built environment, developing necessary knowledge and skills for the different roles and stages involved in designing and constructing a building. Students will also develop new CAD 'Computer Aided Design' skills using Bentley Systems OpenBuildings Designer software.					
Assessment/s	<p>Portfolio (worth 50%) 6 weeks, 32 marks available.</p> <p>Exam (worth 50%): 1 x 80 minute exam, 64 marks available.</p> <p>Quizzes/Exam Practice: Weekly key vocabulary and practice exam questions.</p> <p>Going Green: Acting on feedback in portfolio & exam practice.</p>					

DEC Level 2 Project Brief:

Learners define, develop, deliver and evaluate a fit for purpose, functional building. Their building should be highly sustainable and inclusive to be used by the local community.

Year 10	Summer B/ Autumn A	Autumn B	Spring A	Spring B	Summer A	Summer B
Unit & length	DEC: Level 2 - 6 & 7 weeks Unit 1 Portfolio & Exam- Defining a sustainable construction project.	DEC: Level 2 - 7 weeks Unit 1 Portfolio & Exam- Defining a sustainable construction project.	DEC: Level 2 - 7 weeks Units 1 & 3 Portfolio & Exam- 1. Defining a sustainable construction project. 3. Delivering a sustainable construction project.	DEC: Level 2 - 6 weeks Units 2 & 3 Portfolio & Units 1 ,2 & 3 Exam- 1. Defining a sustainable construction project. 2. Developing a sustainable construction project. 3. Delivering a sustainable construction project.	DEC: Level 2 - 6 weeks Units 2 & 3 Portfolio & Units 1 ,2 & 3 Exam- 1. Defining a sustainable construction project. 2. Developing a sustainable construction project. 3. Delivering a sustainable construction project.	DEC: Level 2 - 6 weeks Units 2 & 3 Portfolio & Units 1 ,2 & 3 Exam- 1. Defining a sustainable construction project. 2. Developing a sustainable construction project. 3. Delivering a sustainable construction project.
Curriculum outline	Students will complete the following portfolio sections: -Location study -Identify building sites -Interview with client -Identify stakeholders -Architects agreement -Project success criteria -Benchmark costings -Schedule of accommodation -Bubble diagrams/planning the building layout -Study of architecture -Project vision Students will also practise exam questions based on the areas listed above.	Students will complete the following portfolio sections: -Sustainability aspirations -Site location -Planning protocol -Planning legislation -Feasibility study Students will also practise exam questions based on the areas listed above and from previous units/sections.	Students will complete the following portfolio sections: -Minimising energy usage -Gantt chart timeplan -Job responsibilities -Organogram of job roles -Estimated building lifespan -Facilities management - Energy -Unit 3 diary pages: Professional industry input Risk assessments Land surveyors Gantt chart Benchmark costings Students will also practise exam questions based on the areas listed above and from previous units/sections.	Students will complete the following portfolio sections: -Project presentation, visual, written and spoken -BIM model of design idea using Bentley Systems OpenBuildings Designer -Social, economic and environmental impact -Final BIM model -Unit 3 diary pages: Professional industry input Risk assessments Land surveyors Gantt chart Benchmark costings Students will also practise exam questions based on the areas listed above and from previous units/sections.	Students will complete the following portfolio sections: -BIM model of design idea using Bentley Systems OpenBuildings Designer -Social, economic and environmental impact -Final BIM model -Unit 3 diary pages: Professional industry input Risk assessments Land surveyors Gantt chart Benchmark costings Students will also practise exam questions based on the areas listed above and from previous units/sections.	Students will complete the following portfolio sections: -Energy/solar analysis -Lighting -Scaled orthographic drawing -Scaled floor plans -Scaled elevation views -Planning permission review -Review of costings -Unit 3 diary pages: Professional industry input Risk assessments Land surveyors Gantt chart Benchmark costings Students will also practise exam questions based on the areas listed above and from previous units/sections.
Assessment/s	Portfolio (worth 50%) Complete sections above. Exam (worth 50%): Mock exam questions. Quizzes/Exam Practice: Weekly key vocabulary and practice exam questions. Going Green: Acting on feedback in portfolio & exam practice.	Portfolio (worth 50%) Complete sections above. Exam (worth 50%): Mock exam questions. Quizzes/Exam Practice: Weekly key vocabulary and practice exam questions. Going Green: Acting on feedback in portfolio & exam practice.	Portfolio (worth 50%) Complete sections above. Exam (worth 50%): Mock exam questions. Quizzes/Exam Practice: Weekly key vocabulary and practice exam questions. Going Green: Acting on feedback in portfolio & exam practice.	Portfolio (worth 50%) Complete sections above. Exam (worth 50%): Mock exam questions. Quizzes/Exam Practice: Weekly key vocabulary and practice exam questions. Going Green: Acting on feedback in portfolio & exam practice.	Portfolio (worth 50%) Complete sections above. Exam (worth 50%): Full mock exam. Quizzes/Exam Practice: Weekly key vocabulary and practice exam questions. Going Green: Acting on feedback in portfolio & exam practice.	Portfolio (worth 50%) Complete sections above. Exam (worth 50%): Full mock exam. Quizzes/Exam Practice: Weekly key vocabulary and practice exam questions. Going Green: Acting on feedback in portfolio & exam practice.

Year 11	Autumn A	Autumn B	Spring A	Spring B	Summer A	Summer B
Unit & length	<p>DEC: Level 2 - 7 weeks Units 2 & 3 Portfolio & Units 1, 2, 3 & 4 Exam- 1. Defining a sustainable construction project. 2. Developing a sustainable construction project. 3. Delivering a sustainable construction project. 4. Evaluate a sustainable construction project.</p>	<p>DEC: Level 2 - 7 weeks Units 3 Portfolio & Units 1, 2, 3 & 4 Exam- 1. Defining a sustainable construction project. 2. Developing a sustainable construction project. 3. Delivering a sustainable construction project. 4. Evaluate a sustainable construction project.</p>	<p>DEC: Level 2 - 7 weeks Units 3 & 4 Portfolio & Units 1, 2, 3 & 4 Exam- 1. Defining a sustainable construction project. 2. Developing a sustainable construction project. 3. Delivering a sustainable construction project. 4. Evaluate a sustainable construction project.</p>	<p>DEC: Level 2 - 6 weeks Unit 4 Portfolio & Units 1, 2, 3 & 4 Exam- 1. Defining a sustainable construction project. 2. Developing a sustainable construction project. 3. Delivering a sustainable construction project. 4. Evaluate a sustainable construction project.</p>	<p>DEC: Level 2 - 6 weeks Units 1,2,3 & 4 Portfolio & Units 1, 2, 3 & 4 Exam- 1. Defining a sustainable construction project. 2. Developing a sustainable construction project. 3. Delivering a sustainable construction project. 4. Evaluate a sustainable construction project.</p>	NA
Curriculum outline	<p>Students will complete the following portfolio sections: -Sustainability initiatives -Climate change strategies -Compliance matrix review -CDM plan -Risk assessments -Final energy analysis -Review targets with project members responsible and success rate</p> <p>Students will also practise exam questions based on the areas listed above and from previous units/sections.</p>	<p>Students will complete the following portfolio sections: -Continue Unit 3 project report/diary pages -Exam preparation</p> <p>Students will also practise exam questions based on the areas listed above and from previous units/sections.</p>	<p>Students will complete the following portfolio sections: -Project report BIM review -Project report energy analysis -Review against design brief -Building regulations -Functionality of the building -BIM overall analysis -Peer presentation & feedback</p> <p>Students will also practise exam questions based on the areas listed above and from previous units/sections.</p>	<p>Students will complete the following portfolio sections: -Floor plan flow of the building for different users -Evaluation against targets -Acting on feedback review -Analysis using data -Long term energy usage -Problems and solutions -Aesthetics & sensory impact -Overall presentation and feedback</p> <p>Students will also practise exam questions based on the areas listed above and from previous units/sections.</p>	<p>Students will complete the following portfolio sections: -Revisit any sections from Units 1,2,3 & 4</p> <p>Students will also practise exam questions based on the areas listed above and from previous units/sections.</p>	NA
Assessment/s	<p>Portfolio (worth 50%) Complete sections above.</p> <p>Exam (worth 50%): Full mock exams.</p> <p>Quizzes/Exam Practice: Weekly key vocabulary and practice exam questions.</p> <p>Going Green: Acting on feedback in portfolio & exam practice.</p>	<p>Portfolio (worth 50%) Complete sections above.</p> <p>Exam (worth 50%): Full mock exams.</p> <p>Quizzes/Exam Practice: Weekly key vocabulary and practice exam questions.</p> <p>Going Green: Acting on feedback in portfolio & exam practice.</p>	<p>Portfolio (worth 50%) Complete sections above.</p> <p>Exam (worth 50%): January- real exam. 1 x 90 minute exam, 80 marks.</p> <p>Quizzes/Exam Practice: Weekly key vocabulary and practice exam questions.</p> <p>Going Green: Acting on feedback in portfolio & exam practice.</p>	<p>Portfolio (worth 50%) Complete sections above.</p> <p>Exam (worth 50%): Full mock exams.</p> <p>Quizzes/Exam Practice: Weekly key vocabulary and practice exam questions.</p> <p>Going Green: Acting on feedback in portfolio & exam practice.</p>	<p>Portfolio (worth 50%) Complete sections above. -Final folder submission, marked out of 44 marks.</p> <p>Exam (worth 50%): May- real exam resit. 1 x 90 minute exam, 80 marks.</p> <p>Quizzes/Exam Practice: Weekly key vocabulary and practice exam questions.</p> <p>Going Green: Acting on feedback in portfolio & exam practice.</p>	NA