

Curriculum Intent, Implementation and Impact

Technology Curriculum

Subject Rationale and Intent

The Technologies faculty delivers a curriculum with a clear pathway from Key Stage 3 to Key Stage 5. At Key Stage 3, students follow a rotation of STEM-based subjects in addition to the core curriculum. At Key Stage 4 and Key Stage 5, all students choose a STEM-based pathway spanning Engineering, Product Design, Art, Computer Science and Constructing the Built Environment, currently including OCR Engineering Design, OCR Engineering Manufacture, Eduqas Design Technology, OCR Computer Science and Eduqas Art & Design. Key Stage 5 pathways include a transition course and T Levels.

Purposeful work experience is arranged for T Level students, and industry speakers and site visits connect the curriculum to real workplaces and future employers. Faculty staff draw on cross-Trust resources and best practice, and use a wide range of specialist tools and machinery to give students access to genuinely industry-standard learning.

This STEM-based curriculum gives students access to more dedicated learning time, so key topics can be covered in greater depth through a bespoke timetable, delivered throughout by specialist subject teachers.

The result is a Technologies curriculum that reflects our STEM pathway at every key stage, with rising engagement and improved outcomes, clear personal targets for every student, and destinations that are established and reviewed through regular discussion so that every student is supported towards their next step.

YEAR 7	Curriculum Content	Assessment Criteria	Parent Support
Term 1	Rotation through STEM-based Technology subjects - including Engineering, Product Design, Art & Design and Computer Science - alongside the core curriculum.	Teacher-assessed practical projects and design outcomes, tracked against faculty expectations. There is no external examination at Key Stage 3.	OCR Cambridge Nationals subject pages BBC Bitesize: Design & Technology / Computer Science GCSEPod
Term 2	Rotation through STEM-based Technology subjects - including Engineering, Product Design, Art & Design and Computer Science - alongside the core curriculum.	Teacher-assessed practical projects and design outcomes, tracked against faculty expectations. There is no external examination at Key Stage 3.	OCR Cambridge Nationals subject pages BBC Bitesize: Design & Technology / Computer Science GCSEPod
Term 3	Rotation through STEM-based Technology subjects - including Engineering, Product Design, Art & Design and Computer Science - alongside the core curriculum.	Teacher-assessed practical projects and design outcomes, tracked against faculty expectations. There is no external examination at Key Stage 3.	OCR Cambridge Nationals subject pages BBC Bitesize: Design & Technology / Computer Science GCSEPod

YEAR 8	Curriculum Content	Assessment Criteria	Parent Support
Term 1	Rotation through STEM-based Technology subjects – including Engineering, Product Design, Art & Design and Computer Science – alongside the core curriculum.	Teacher-assessed practical projects and design outcomes, tracked against faculty expectations. There is no external examination at Key Stage 3.	OCR Cambridge Nationals subject pages BBC Bitesize: Design & Technology / Computer Science GCSEPod
Term 2	Rotation through STEM-based Technology subjects – including Engineering, Product Design, Art & Design and Computer Science – alongside the core curriculum.	Teacher-assessed practical projects and design outcomes, tracked against faculty expectations. There is no external examination at Key Stage 3.	OCR Cambridge Nationals subject pages BBC Bitesize: Design & Technology / Computer Science GCSEPod
Term 3	Rotation through STEM-based Technology subjects – including Engineering, Product Design, Art & Design and Computer Science – alongside the core curriculum.	Teacher-assessed practical projects and design outcomes, tracked against faculty expectations. There is no external examination at Key Stage 3.	OCR Cambridge Nationals subject pages BBC Bitesize: Design & Technology / Computer Science GCSEPod

YEAR 9	Curriculum Content	Assessment Criteria	Parent Support
Term 1	Rotation through STEM-based Technology subjects – including Engineering, Product Design, Art & Design and Computer Science – alongside the core curriculum.	Teacher-assessed practical projects and design outcomes, tracked against faculty expectations. There is no external examination at Key Stage 3.	OCR Cambridge Nationals subject pages BBC Bitesize: Design & Technology / Computer Science GCSEPod
Term 2	Rotation through STEM-based Technology subjects – including Engineering, Product Design, Art & Design and Computer Science – alongside the core curriculum.	Teacher-assessed practical projects and design outcomes, tracked against faculty expectations. There is no external examination at Key Stage 3.	OCR Cambridge Nationals subject pages BBC Bitesize: Design & Technology / Computer Science GCSEPod
Term 3	Rotation through STEM-based Technology subjects – including Engineering, Product Design, Art & Design and Computer Science – alongside the core curriculum.	Teacher-assessed practical projects and design outcomes, tracked against faculty expectations. There is no external examination at Key Stage 3.	OCR Cambridge Nationals subject pages BBC Bitesize: Design & Technology / Computer Science GCSEPod

YEAR 10	Curriculum Content	Assessment Criteria	Parent Support
Term 1	A STEM-based option pathway including OCR Cambridge National in Engineering Design, OCR Cambridge National in Engineering Manufacture, Eduqas GCSE Design	Engineering Design/Manufacture (OCR Cambridge Nationals): a mix of an external exam and centre-assessed	OCR Cambridge Nationals subject pages BBC Bitesize: Design & Technology / Computer Science

YEAR 10	Curriculum Content	Assessment Criteria	Parent Support
	& Technology, OCR GCSE Computer Science, and Eduqas GCSE Art & Design.	(NEA) units, marked against four weighted Performance Objectives. Design & Technology (Eduqas): 50% written exam / 50% non-exam design-and-make project, assessed against four AOs. Computer Science (OCR): two equally-weighted written exams. Art & Design (Eduqas): Component 1 Portfolio (60%) and Component 2 Externally Set Assignment (40%), assessed against four equally-weighted AOs (critical understanding, creative making, reflective recording, personal presentation).	GCSEPod
Term 2	A STEM-based option pathway including OCR Cambridge National in Engineering Design, OCR Cambridge National in Engineering Manufacture, Eduqas GCSE Design & Technology, OCR GCSE Computer Science, and Eduqas GCSE Art & Design.	Engineering Design/Manufacture (OCR Cambridge Nationals): a mix of an external exam and centre-assessed (NEA) units, marked against four weighted Performance Objectives. Design & Technology (Eduqas): 50% written exam / 50% non-exam design-and-make project, assessed against four AOs. Computer Science (OCR): two equally-weighted written exams. Art & Design (Eduqas): Component 1 Portfolio (60%) and Component 2 Externally Set Assignment (40%), assessed against four equally-weighted AOs (critical understanding, creative making, reflective recording, personal presentation).	OCR Cambridge Nationals subject pages BBC Bitesize: Design & Technology / Computer Science GCSEPod
Term 3	A STEM-based option pathway including OCR Cambridge National in Engineering Design, OCR Cambridge National in Engineering Manufacture, Eduqas GCSE Design & Technology, OCR GCSE	Engineering Design/Manufacture (OCR Cambridge Nationals): a mix of an external exam and centre-assessed (NEA) units, marked	OCR Cambridge Nationals subject pages BBC Bitesize: Design & Technology / Computer Science

YEAR 10	Curriculum Content	Assessment Criteria	Parent Support
	Computer Science, and Eduqas GCSE Art & Design.	against four weighted Performance Objectives. Design & Technology (Eduqas): 50% written exam / 50% non-exam design-and-make project, assessed against four AOs. Computer Science (OCR): two equally-weighted written exams. Art & Design (Eduqas): Component 1 Portfolio (60%) and Component 2 Externally Set Assignment (40%), assessed against four equally-weighted AOs (critical understanding, creative making, reflective recording, personal presentation).	GCSEPod

YEAR 11	Curriculum Content	Assessment Criteria	Parent Support
Term 1	A STEM-based option pathway including OCR Cambridge National in Engineering Design, OCR Cambridge National in Engineering Manufacture, Eduqas GCSE Design & Technology, OCR GCSE Computer Science, and Eduqas GCSE Art & Design.	Engineering Design/Manufacture (OCR Cambridge Nationals): a mix of an external exam and centre-assessed (NEA) units, marked against four weighted Performance Objectives. Design & Technology (Eduqas): 50% written exam / 50% non-exam design-and-make project, assessed against four AOs. Computer Science (OCR): two equally-weighted written exams. Art & Design (Eduqas): Component 1 Portfolio (60%) and Component 2 Externally Set Assignment (40%), assessed against four equally-weighted AOs (critical understanding, creative making, reflective recording, personal presentation).	OCR Cambridge Nationals subject pages BBC Bitesize: Design & Technology / Computer Science GCSEPod
Term 2	A STEM-based option pathway including OCR Cambridge National in Engineering Design, OCR Cambridge National in Engineering	Engineering Design/Manufacture (OCR Cambridge Nationals): a mix of an external exam	OCR Cambridge Nationals subject pages

YEAR 11	Curriculum Content	Assessment Criteria	Parent Support
	Manufacture, Eduqas GCSE Design & Technology, OCR GCSE Computer Science, and Eduqas GCSE Art & Design.	and centre-assessed (NEA) units, marked against four weighted Performance Objectives. Design & Technology (Eduqas): 50% written exam / 50% non-exam design-and-make project, assessed against four AOs. Computer Science (OCR): two equally-weighted written exams. Art & Design (Eduqas): Component 1 Portfolio (60%) and Component 2 Externally Set Assignment (40%), assessed against four equally-weighted AOs (critical understanding, creative making, reflective recording, personal presentation).	BBC Bitesize: Design & Technology / Computer Science GCSEPod
Term 3	A STEM-based option pathway including OCR Cambridge National in Engineering Design, OCR Cambridge National in Engineering Manufacture, Eduqas GCSE Design & Technology, OCR GCSE Computer Science, and Eduqas GCSE Art & Design.	Engineering Design/Manufacture (OCR Cambridge Nationals): a mix of an external exam and centre-assessed (NEA) units, marked against four weighted Performance Objectives. Design & Technology (Eduqas): 50% written exam / 50% non-exam design-and-make project, assessed against four AOs. Computer Science (OCR): two equally-weighted written exams. Art & Design (Eduqas): Component 1 Portfolio (60%) and Component 2 Externally Set Assignment (40%), assessed against four equally-weighted AOs (critical understanding, creative making, reflective recording, personal presentation).	OCR Cambridge Nationals subject pages BBC Bitesize: Design & Technology / Computer Science GCSEPod

YEAR 12	Curriculum Content	Assessment Criteria	Parent Support
Term 1	A Level 3 transition course and T Levels, building practical and theoretical skills for engineering, design and technology-related careers, supported by work experience placements.	T Levels combine external exams, an employer-set project and an industry placement; the transition course is assessed through coursework and practical assignments set by the awarding body.	OCR Cambridge Nationals subject pages BBC Bitesize: Design & Technology / Computer Science GCSEPod
Term 2	A Level 3 transition course and T Levels, building practical and theoretical skills for engineering, design and technology-related careers, supported by work experience placements.	T Levels combine external exams, an employer-set project and an industry placement; the transition course is assessed through coursework and practical assignments set by the awarding body.	OCR Cambridge Nationals subject pages BBC Bitesize: Design & Technology / Computer Science GCSEPod
Term 3	A Level 3 transition course and T Levels, building practical and theoretical skills for engineering, design and technology-related careers, supported by work experience placements.	T Levels combine external exams, an employer-set project and an industry placement; the transition course is assessed through coursework and practical assignments set by the awarding body.	OCR Cambridge Nationals subject pages BBC Bitesize: Design & Technology / Computer Science GCSEPod

YEAR 13	Curriculum Content	Assessment Criteria	Parent Support
Term 1	A Level 3 transition course and T Levels, building practical and theoretical skills for engineering, design and technology-related careers, supported by work experience placements.	T Levels combine external exams, an employer-set project and an industry placement; the transition course is assessed through coursework and practical assignments set by the awarding body.	OCR Cambridge Nationals subject pages BBC Bitesize: Design & Technology / Computer Science GCSEPod
Term 2	A Level 3 transition course and T Levels, building practical and theoretical skills for engineering, design and technology-related careers, supported by work experience placements.	T Levels combine external exams, an employer-set project and an industry placement; the transition course is assessed through coursework and practical assignments set by the awarding body.	OCR Cambridge Nationals subject pages BBC Bitesize: Design & Technology / Computer Science GCSEPod
Term 3	A Level 3 transition course and T Levels, building practical and theoretical skills for engineering, design and technology-related careers, supported by work experience placements.	T Levels combine external exams, an employer-set project and an industry placement; the transition course is assessed through coursework and practical assignments set by the awarding body.	OCR Cambridge Nationals subject pages BBC Bitesize: Design & Technology / Computer Science GCSEPod