

OPA Curriculum Explained – Year 7 D & T

What will my child be learning in Spring Term 1 – 2024
(Thursday 4th January 2024 to Thursday 28th March 2024)

Year 7 D & T Spring Term Curriculum Focus

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Spring	Catapult Project					
	Design brief and introduction to motions and forces	Properties of material	Marking of lap joints	Practical - using workshop tools to cut accurate lap joints, including refining and joining of base of the catapult		

	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Spring	Catapult Project					
	Practical - Marking, cutting and refining of joints for the padded buffer. Assembling catapult	Practical - drilling and attaching skein	Designing side panels for catapult	Practical - Finishing techniques	Testing & evaluation/ end of project assessment	

Year 7 D & T Spring Term Assessment

One piece of work is assessed each half term, this could be a practical assessment or a design sheet. At the end of the second half term (towards the end of a project) pupils will have a practical assessment in the form of a review of final outcome, alongside a written exam paper consolidating the project.

Year 7 D & T Spring Term Homework

One Homework project will be given to pupils at the start of each term, the projects will be printed into booklet format and given to pupils in class. The project should take approximately 8-10 hours to complete.

OPA Curriculum Explained – Year 8 D & T

What will my child be learning in Spring Term 1 – 2024

(Thursday 4th January 2024 to Thursday 28th March 2024)

Year 8 D & T Spring Term 1 Curriculum Focus

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Spring	The Clock project					
	Design brief and specification	Case Study - Memphis design movement	Design Ideas	Designing using CAD: Introduction to using 2d Design, producing design idea using software		Manufacturing Process - CAM

	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Spring	The Clock project					
	Soft modelling and iterative design process		Manufacturing final outcome		Product assembly	Testing & evaluation/ end of project assessment

Assessment:

One piece of work is assessed each half term, this could be a practical assessment or a design sheet. At the end of the second half term (towards the end of a project) pupils will have a practical assessment in the form of a review of final outcome, alongside a written exam paper consolidating the project.

Homework:

One Homework project will be given to pupils at the start of each term, the projects will be printed into booklet format and given to pupils in class. The project should take approximately 8-10 hours to complete.

OPA Curriculum Explained – Year 9 D & T

What will my child be learning in Spring Term – 2024
(Thursday 4th January 2024 to Thursday 28th March 2024)

Year 9 D & T Spring Term Curriculum Focus

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Spring	Architecture Project					
	Design brief and understanding CAD/CAM	Drawing Skill: 1 point perspective	Drawing Skill: 2 point perspective	Case study: Bauhaus designs	CAD -Introduction to CAD software, designing using 2d design software	

	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Spring	Architecture Project					
	Soft modelling of design idea and iterative design process	Reworking CAD designs based on soft model/ iterations	CAM- Laser cutting design and product assembly	Testing and evaluation/ end of project assessment		

Year 9 D&T Spring Term Assessment

One piece of work is assessed each half term, this could be a practical assessment or a design sheet. At the end of the second half term (towards the end of a project) pupils will have a practical assessment in the form of a review of final outcome, alongside a written exam paper consolidating the project.

Year 9 D&T Spring Term Homework

One Homework project will be given to pupils at the start of each term, the projects will be printed into booklet format and given to pupils in class. The project should take approximately 8-10 hours to complete.

OPA Curriculum Explained – Year 10 D & T

What will my child be learning in Spring Term – 2024
(Thursday 4th January 2024 to Thursday 28th March 2024)

Year 10 D & T Spring Term Curriculum Focus

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Spring						
	Electrical engineering - mini project: Complete making template and begin product assembly		Mini Project: Complete assembly and begin finishing techniques		Mini Project: Manufacturing diary, flowchart, testing and evaluation of mini project	

	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Spring						
	Exploring Engineering disciplines: Health and Safety, PPE, Manual Handling, COSH and RIDDOR		Engineering Drawings: Isometric, Orthographic, Title Blocks and Line types		Engineering Drawings: CAD Drawings - Orthographic and isometric, Tolerance and scale factor and BS8888	

Assessment:

Pupils will be assessed with a formative written exam paper each half term to consolidate everything they have learnt in that term. The practical project will be marked live throughout the projects - this will look at design, manufacturing, finishing and testing/ evaluating of final outcome.

Homework:

Pupils will be set one piece of homework each week, the homework will be related to what is being taught and delivered in class. The homework will be used to develop understanding of engineering disciplines.