DT Curriculum Guide

Curriculum Intent Year 7	D&T is on rotation with art and Food technology. In DT they have two lessons a week for two half terms, before moving onto either art or food technology. They do one project each half term with an additional mini project for the last two weeks. Project one is a woodwork project where the students experience the basics surrounding the design and make cycle. They will carry some analysis, research, design ideas, practical work using workshop tools and equipment like saws and pillar drill and evaluation to create a toy car. Project two is drawing and graphics project where they learn the basics of how to draw, render and annotate creative ideas. The mini project is an introduction to textiles technology. In this project they will learn and demonstrate basic skills like threading a needle, tying a knot, hand sewing and embroidery and applique to create a hanging decoration.	
Curriculum Content	Half Term 1 Analysis: Task analysis Research and investigation: Materials research on timbers Research and investigation: Existing products Design and communication: Design ideas and annotation Practical skills in the workshop: Health and safety and selection of specialist tools and equipment Evaluation of final product and skills	Half Term 2 Freehand techniques Tone Texture Oblique isometric One point perspective Colour theory Lettering Textiles: sewing Embroidery applique
Assessment	Toy car: There will a test on timber materials, tools and equipment names and spellings and finished product Graphics: one point perspective drawing and rendering Textiles: finished product	
What can you do to support your child in DT	Encourage revision for tests, practice the skills learnt at home if you can, especially the graphics and textiles skills. Discuss the importance of sustainability and looking after the environment by making wise choices on material resources and product use and maintenance. Discuss how things are made or manufactured when possible	
Links to useful revision aids or online revision resources	All students can access via the school desktop ' Focus E- learning' . This software has a comprehensive catalogue of all topics covers in the KS3 and KS4 curriculum and exam board specifications. It has information, moving diagrams, video clips, audio clips, tests and quizzes.	

DT Curriculum Guide

Curriculum Intent Year 8	D&T is on rotation with art and Food technology. In DT they have two lessons a week for two half terms, before moving onto either art or food technology. They do one project each half term. Project one is the Alessi project where the students investigate the work of others within the Alessi brand, as well as learn how to use 2D design using computer software and learn how to use the laser cutter and vacuum former. They will carry some analysis, research, design ideas, practical work and evaluations. Project two is drawing and graphics project where they learn how to use tone and texture, render and annotate create a street view in two-point perspective. This is to prepare them for the design challenges at KS4.	
Curriculum Content	Half Term 1 Analysis: Task analysis Research and investigation: Materials research on plastics Research and investigation: Existing products and brands Design and communication: Design ideas and annotation Practical ICT: learning ang developing how to use CAD software Practical skills in the workshop: Health and safety and selection of specialist tools and equipment Packaging and legislation Evaluation of final product and skills	Half Term 2 Freehand techniques Tone Texture Oblique isometric Two -point perspective Colour and rendering materials Streetview/ birds eye view and worm's eye view
Assessment	Alessi project: There will a test on research topics, using 2D design software and finished product Graphics: two-point perspective drawing, rendering and final street view illustration	
What can you do to support your child in DT	Encourage revision for tests, practice the skills learnt at home if you can, especially the graphics and textiles skills. Discuss the importance of sustainability and looking after the environment by making wise choices on material resources and product use and maintenance. Discuss how things are made or manufactured when possible	
Links to useful revision aids or online revision resources	All students can access via the school desktop ' Focus E- learning' . This software has a comprehensive catalogue of all topics covers in the KS3 and KS4 curriculum and exam board specifications. It has information, moving diagrams, video clips, audio clips, tests and quizzes.	

DT Curriculum Guide

Curriculum Intent Year 9	50% exam The Exam consists of: • Unit 1 Core technical principles- New and emerging technologies • Unit 2 Core technical principles- Energy, materials, systems and devices • Unit 3 Core technical principles- Materials and their working properties • Unit 4 Specialist technical principles- Common specialist technical principles • Unit 5a Specialist technical principles- Paper and boards • Unit 5b Specialist technical principles- Timber based materials • Unit 5c Specialist technical principles- Metal based materials • Unit 5d Specialist technical principles- Polymers • Unit 5e Specialist technical principles- Textiles • Unit 5f Specialist technical principles- Electronic systems • Unit 6 Designing and making principles- Designing principles • Unit 7 Designing and making principles- Making principles	50% NEA (Non Examination Assessment) The coursework contexts are released in June of year 10. All the projects studied in year 9 use the same basic structure of the following Assessment Objectives: AO1: identifying, investigating design possibilities AO1: producing a design brief and specification AO2: Design and make prototypes that are fit for purpose- Generating ideas AO2:Design and make prototypes that are fit for purpose- Developing designs A02: Design and make prototypes that are fit for purpose- Realising design ideas A03: Analysing and evaluating	
Curriculum Content	Half Term 1 Phone stand project in timber-based materials Half Term 4 Polymer project	Half Term 2 Textile Toy based project Half Term 5 Mechanisms project using paper and boards	Half Term 3 Completion of Textile project& start Polymer project Half Term 6 Unit 6 Designing and making principles- Designing principles project
Assessment	This will be based on class work, homework, tests based on the exam units and practicing the Assessment objective for coursework.		
What can you do to support your child in DT	Encourage revision for tests, practice the skills learnt at home if you can, especially the graphics skills. Discuss the importance of sustainability and looking after the environment by making wise choices on material resources and product use and maintenance. Discuss how things are made or manufactured when possible. Encourage the completion of homework as there is a lot of theory and exam content to cover.		
Links to useful revision aids or online revision resources	All students can access via the school desktop ‘Focus E- learning’ . This software has a comprehensive catalogue of all topics covers in the KS3 and KS4 curriculum and exam board specifications. It has information, moving diagrams, video clips, audio clips, tests and quizzes. ‘ Focus E learning’ is used in lesson and sometimes set for Homework.		

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DT Curriculum Guide

Curriculum Intent Year 10	50% exam The Exam consists of: • Unit 1 Core technical principles- New and emerging technologies • Unit 2 Core technical principles- Energy, materials, systems and devices • Unit 3 Core technical principles- Materials and their working properties • Unit 4 Specialist technical principles- Common specialist technical principles • Unit 5a Specialist technical principles- Paper and boards • Unit 5b Specialist technical principles- Timber based materials • Unit 5c Specialist technical principles- Metal based materials • Unit 5d Specialist technical principles- Polymers • Unit 5e Specialist technical principles- Textiles • Unit 5f Specialist technical principles- Electronic systems • Unit 6 Designing and making principles- Designing principles • Unit 7 Designing and making principles- Making principles	50% NEA (Non Examination Assessment) The coursework contexts are released in June of year 10. All the projects studied in year 9 use the same basic structure of the following Assessment Objectives: AO1: identifying, investigating design possibilities AO1: producing a design brief and specification AO2: Design and make prototypes that are fit for purpose- Generating ideas AO2:Design and make prototypes that are fit for purpose- Developing designs A02: Design and make prototypes that are fit for purpose- Realising design ideas A03: Analysing and evaluating	
Curriculum Content	Half Term 1 Picture frame- timber and manufactured board project Half Term 4 Mini practice NEA Lamp design and manufacture	Half Term 2 Metal hook project Half Term 5 Mini practice NEA Lamp manufacture	Half Term 3 Electronics and mini practice NEA lamp project Half Term 6 Mock exam revision and start the real NEA on June 1st
Assessment	This will be based on class work, homework, tests, mock exams and the actual Assessment objective for coursework.		
What can you do to support your child in DT	Encourage revision for tests, practice the skills learnt at home if you can, especially the graphics skills. Discuss the importance of sustainability and looking after the environment by making wise choices on material resources and product use and maintenance. Discuss how things are made or manufactured when possible. Encourage the completion of homework as there is a lot of theory and exam content to cover.		
Links to useful revision aids or online revision resources	All students can access via the school desktop ‘Focus E- learning’ . This software has a comprehensive catalogue of all topics covers in the KS3 and KS4 curriculum and exam board specifications. It has information, moving diagrams, video clips, audio clips, tests and quizzes. ‘ Focus E learning’ is used in lesson and sometimes set for Homework.		

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Curriculum Intent Year 11	50% exam The Exam consists of: • Unit 1 Core technical principles- New and emerging technologies • Unit 2 Core technical principles- Energy, materials, systems and devices • Unit 3 Core technical principles- Materials and their working properties • Unit 4 Specialist technical principles- Common specialist technical principles • Unit 5a Specialist technical principles- Paper and boards • Unit 5b Specialist technical principles- Timber based materials • Unit 5c Specialist technical principles- Metal based materials • Unit 5d Specialist technical principles- Polymers • Unit 5e Specialist technical principles- Textiles • Unit 5f Specialist technical principles- Electronic systems • Unit 6 Designing and making principles- Designing principles • Unit 7 Designing and making principles- Making principles	50% NEA (Non Examination Assessment) The coursework contexts are released in June of year 10. All the projects studied in year 9 use the same basic structure of the following Assessment Objectives: AO1: identifying, investigating design possibilities AO1: producing a design brief and specification AO2: Design and make prototypes that are fit for purpose- Generating ideas AO2:Design and make prototypes that are fit for purpose- Developing designs A02: Design and make prototypes that are fit for purpose- Realising design ideas A03: Analysing and evaluating	
Curriculum Content	Half Term 1 NEA: Completion of AO1: identifying, investigating design possibilities & producing a design brief and specification. Theory: Revision and exam practice questions , unit 1,2 &3 Half Term 4 NEA: Completion of A02: Realising design ideas & AO3 Analysing and evaluating Theory: Revision and exam practice questions, unit 6 &7	Half Term 2 NEA: Completion of AO2: Design and make prototypes that are fit for purpose- Generating ideas & Developing designs Theory: Revision and exam practice questions, unit 4 and 5(a-f) Half Term 5 Exam revision and NEA completion Marks to the exam board early May	Half Term 3 NEA: Completion of A02: Design and make prototypes that are fit for purpose- Realising design ideas Theory: Revision and exam practice questions, unit 6 &7 Half Term 6 Exam Monday 17th June
Assessment	This will be based on class work, homework, tests, mock exams and the actual Assessment objective for coursework.		
What can you do to support your child in DT	Encourage revision for tests, practice the skills learnt at home if you can, especially the graphics skills. Discuss the importance of sustainability and looking after the environment by making wise choices on material resources and product use and maintenance. Discuss how things are made or manufactured when possible. Encourage the completion of homework as there is a lot of theory and exam content to cover.		
Links to useful revision aids or online revision resources	All students can access via the school desktop 'Focus E- learning' . This software has a comprehensive catalogue of all topics covers in the KS3 and KS4 curriculum and exam board specifications. It has information, moving diagrams, video clips, audio clips, tests and quizzes. ' Focus E learning' is used in lesson and sometimes set for Homework.		

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