

# DESIGN AND TECHNOLOGY



Curriculum Hours		Class Details			Assessments	Exam Board	
LS	2 periods per week	G1=7	G2=7	G3=7	Ongoing assessment + Assessment of final piece	N/A	
		AM	AM	AM			
US	3 periods per week	G4=6 (Yr9)		G5=8 (Yr9)	End of unit assessments when appropriate	N/A	
		EF		EF			
		G6=7 (Yr10)		G7=5 (Yr10)		Yr 10 = Unit R105 exam 1hr Summer Exam	OCR
		EF		EF			
		G8=6 (Yr11)	G9=6(Yr11)	G10=5 (Yr11)	Yr 11 = Unit R106, R107 & R108 R105- Summer Resit	OCR	
		EF	EF	EF			

## LS Curriculum

ADT focuses on allowing KS3 pupils to explore a range of practical subjects and topics prior to selecting and specialising in higher years. The variety of topics covered in ADT allows pupils to gain a basic understanding of life-long skills and processes, to then develop as they progress.

Students start by covering a Textiles project in Term 1 which allows them to identify the links between the traditional Art and Design Technology curriculums – here students will develop basic drawing/design skills, research and create whilst focusing on a singular theme or topic. Term 3 format, Design Technology is separated to allow specialised development. Here students will look at the more specific DT skills such as technical drawing, working with resistant materials and developing new products,

ADT aims to give all pupils the confidence to work creatively and apply skills from various subjects to a practical topic or theme.

Textiles <i>Sensory cushions</i>	Textiles <i>Sensory cushions</i>	Food Technology <i>Nutrition</i>	Food Technology <i>Healthy Eating</i>	Resistant Materials <i>Outdoor Deco</i>	Resistant Materials <i>Outdoor Deco</i>
		Mixed Media <i>Insects</i>	3D Sculptures <i>Insects</i>	Paint Skills <i>Pop Art</i>	3D Sculptures <i>Pop Art</i>
Textiles <i>Apparel &amp; Accessories</i>	Textiles <i>Apparel &amp; Accessories</i>	Food Technology <i>Dietary Needs</i>	Food Technology <i>Cultural Foods</i>	Resistant Materials <i>CAD/CAM</i>	Resistant Materials <i>CAD/CAM</i>
		Photography <i>Advertisement</i>	Graphic Skills <i>Advertisement</i>	Collage <i>Cubism</i>	3D Sculpture <i>Cubism</i>
Textiles <i>Soft toys</i>	Textiles <i>Soft Toys</i>	Food Technology <i>Food Sourcing</i>	Food Technology <i>Presenting Dishes</i>	Resistant Materials <i>Sustainability</i>	Resistant Materials <i>Sustainability</i>
		3D Sculpture <i>Surrealism &amp; Fantasy</i>	Clay Work <i>Surrealism &amp; Fantasy</i>	Paint Skills <i>Topic focus TBC</i>	Mixed Media <i>Topic focus TBC</i>

## US Curriculum

### QUEENSWAY NORTH - LONG/MEDIUM TERM PLANNING DOCUMENT 2019 TO 2020

SUBJECT: DT YEAR 11'S G8, G9 & G10 OCR CAMBRIDGE NATIONALS ENGINEERING DESIGN

HALF TERM/DATES	MAIN ASSESSMENT, COURSEWORK OR EXAMINATION DATES THAT OCCUR (FROM LONG TERM PLANNING)	COVERAGE AREAS/TASKS. TO ENSURE STUDENTS REACH TEACHING AND LEARNING GOALS, ASSESSMENT GOALS AND TO ENSURE STUDENT PROGRESS
1. UNIT R106/R108	UNIT R106/8- PRODUCT ANALYSIS & RESEARCH LO1, LO2, LO3 MARKING SPECIFICATION UNIT CRITERIA	LO2: Be able to research existing products LO3: Be able to analyse an existing product through disassembly
2. UNIT R108	UNIT R108- PRODUCT ANALYSIS & RESEARCH LO1, LO2, LO3, LO4 MARKING SPECIFICATION UNIT CRITERIA	LO1: Know how to plan the making of a prototype LO2: Understand safe working practices used when making a prototype LO3: Be able to produce a prototype LO4: Be able to evaluate the success of a prototype
3. UNIT R108	UNIT R108- PRODUCT ANALYSIS & RESEARCH LO1, LO2, LO3, LO4 MARKING SPECIFICATION UNIT CRITERIA	LO1: Know how to plan the making of a prototype LO2: Understand safe working practices used when making a prototype LO3: Be able to produce a prototype LO4: Be able to evaluate the success of a prototype
4. UNIT R105/7	UNIT R107- PRODUCT ANALYSIS & RESEARCH LO1, LO2, LO3, LO4 MARKING SPECIFICATION UNIT CRITERIA STUDENTS TO COMPLETE R105- IF NEED TO RESIT. OTHERS TO COMPLETE UNTI R107.	LO1: Be able to generate design proposals using a range of techniques LO2: Know how to develop designs using engineering drawing techniques and annotation LO3: Be able to use Computer Aided Design (CAD) software and techniques to produce and communicate design proposals
5. ALL CWRK UNITS- FINAL CHECK	R106, R107, R108 LEARNING OBJECTIVE CRITERIA	R106, R107, R108 LEARNING OBJECTIVE CRITERIA
6. STUDY LEAVE	STUDY LEAVE	STUDY LEAVE

NB: ABOVE WILL LINK TO SCHEMES OF WORK FROM [OCR CAMBRIDGE NATIONALS ENGINEERING DESIGN SPECIFICATION/ASSESSMENT CRITERIA](#)

## US Curriculum

### QUEENSWAY NORTH- LONG/MEDIUM TERM PLANNING DOCUMENT 2019 TO 2020

SUBJECT: DT YEAR 10'S G6 & G7 OCR CAMBRIDGE NATIONALS ENGINEERING DESIGN



HALF TERM/DATES	MAIN ASSESSMENT, COURSEWORK OR EXAMINATION DATES THAT OCCUR (FROM LONG TERM PLANNING)	COVERAGE AREAS/TASKS. TO ENSURE STUDENTS REACH TEACHING AND LEARNING GOALS, ASSESSMENT GOALS AND TO ENSURE STUDENT PROGRESS
1. UNIT R106	LO1, LO2, LO3 MARKING SPECIFICATION UNIT CRITERIA	LO1: Know how commercial production methods, quality and legislation impact on the design of products and components LO2: Be able to research existing products LO3: Be able to analyse an existing product through disassembly
2. UNIT R106-	LO1, LO2, LO3 MARKING SPECIFICATION UNIT CRITERIA	LO1: Know how commercial production methods, quality and legislation impact on the design of products and components LO2: Be able to research existing products LO3: Be able to analyse an existing product through disassembly
3, 4 & 5 UNIT R105	UNIT R105 – DESIGN BRIEFS, DESIGN SPECIFICATIONS AND USER REQUIREMENTS – WRITTEN EXAM-1HR	LO1: Understand the design cycle and the relationship between design briefs and design specifications LO2: Understand the requirements of design specifications for the development of a new product LO3: Know about the wider influences on the design of new products
6. UNIT R106/R107	LO1, LO2, LO3 MARKING SPECIFICATION UNIT CRITERIA	LO1: Know how commercial production methods, quality and legislation impact on the design of products and components LO2: Be able to research existing products LO3: Be able to analyse an existing product through disassembly

NB: ABOVE WILL LINK TO SCHEMES OF WORK FROM OCR CAMBRIDGE NATIONALS ENGINEERING DESIGN SPECIFICATION AND MARKING CRITERIA

# US Curriculum

SUBJECT: DT YEAR 9'S G4 & G5 OCR CAMBRIDGE NATIONALS ENGINEERING DESIGN



HALF TERM/DATES	MAIN ASSESSMENT, COURSEWORK OR EXAMINATION DATES THAT OCCUR (FROM LONG TERM PLANNING)	COVERAGE AREAS/TASKS. TO ENSURE STUDENTS REACH TEACHING AND LEARNING GOALS, ASSESSMENT GOALS AND TO ENSURE STUDENT PROGRESS
1. UNIT R106	UNIT R106- PRODUCT ANALYSIS & RESEARCH LO1, LO2, L03 MARKING SPECIFICATION UNIT CRITERIA	LO1: Know how commercial production methods, quality and legislation impact on the design of products and components LO2: Be able to research existing products LO3: Be able to analyse an existing product through disassembly
2. UNIT R106-	LO1, LO2, L03 MARKING SPECIFICATION UNIT CRITERIA	LO1: Know how commercial production methods, quality and legislation impact on the design of products and components LO2: Be able to research existing products LO3: Be able to analyse an existing product through disassembly
3. UNIT R106	LO1, LO2, L03 MARKING SPECIFICATION UNIT CRITERIA	LO1: Know how commercial production methods, quality and legislation impact on the design of products and components LO2: Be able to research existing products LO3: Be able to analyse an existing product through disassembly
4. UNIT R106	LO1, LO2, L03 MARKING SPECIFICATION UNIT CRITERIA	LO1: Know how commercial production methods, quality and legislation impact on the design of products and components LO2: Be able to research existing products LO3: Be able to analyse an existing product through disassembly
5 & 6. UNIT R107	UNIT R107- DEVELOPING AND PRESENTING ENGINEERING DESIGNS LO1, LO2, L03 MARKING SPECIFICATION UNIT CRITERIA	LO1: Be able to generate design proposals using a range of techniques LO2: Know how to develop designs using engineering drawing techniques and annotation LO3: Be able to use Computer Aided Design (CAD) software and techniques to produce and communicate design proposals

## Other Info

It is our aim to encourage the understanding, appreciation and enjoyment of all aspects of Design Technology across the KS3 and KS4 National Curriculum. As a Design Technology department we run a three year course for KS4 qualifications. The course currently being delivered is OCR Cambridge Nationals Engineering which is on the performance criteria and equivalent to a full GCSE. Engineering Design is graded on a Pass, Merit or Distinction level. It comprises of one controlled assessment unit and exam for the award course or three controlled assessment units and exam for the certificate. The exam can be taken and re-sit once after enabling the students the best possible chance of achieving their full potential.

OCR Cambridge Nationals Engineering provide learners with the underpinning skills and knowledge that will enable them to choose the most appropriate progression routes for their particular needs (further study, Further Education (FE) or employment). Progression from OCR Level 1/ Level 2 Cambridge National Award/Certificate/in Engineering to Cambridge Technicals in Engineering at Level 2 and Level 3 or Apprenticeships.