

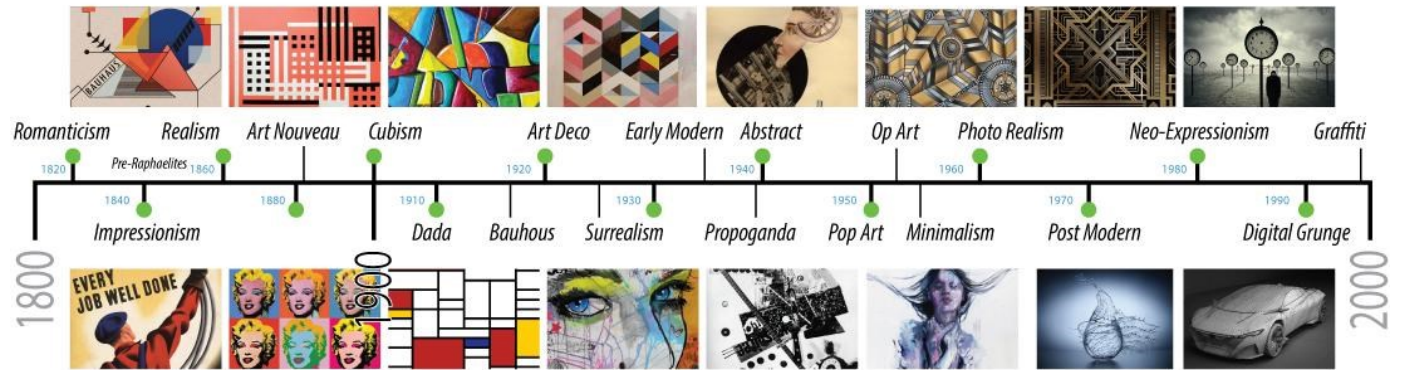
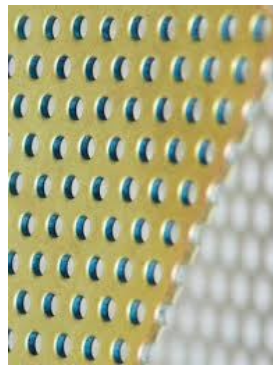
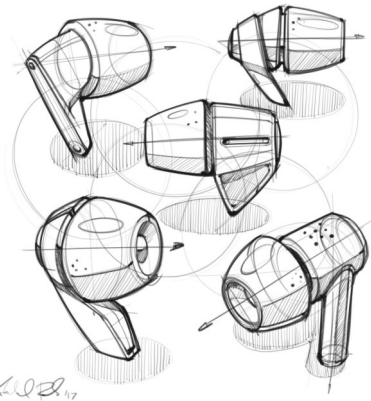
Design history; design communication;
materials; manufacture;
industry; testing

Year 12

Name

Teaching Group

Teacher



Work completed: BLACK pen.

Teacher assessment—RED pen

Student assessment/improvements—GREEN pen

RECALL activities—BLUE pen

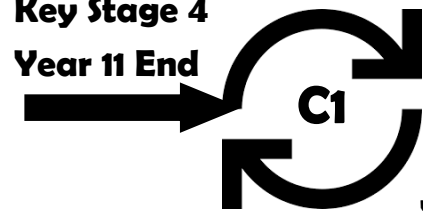
Leadership Tasks carried out: *(tick existing or add others)*

Cycle 1 Chosen Student Leader? - Yes No

RECALL task planner	<input type="checkbox"/>	Led a team	<input type="checkbox"/>	Demonstrated a practical task	<input type="checkbox"/>
Created a plenary	<input type="checkbox"/>	Presented to class	<input type="checkbox"/>	Explained a topic to others	<input type="checkbox"/>
Helped my peers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Key Stage 4

Year 11 End













Yr12

Key Stage 5

Cycle 1 Multi topic theory; sketchbooks & mini projects — Curriculum Journey

During the course of this cycle, you will cover content pertaining to the NEA and examination within the following categories:

Pre-Learning 	Vital prior knowledge you can obtain before lessons to further your understanding of the topic.	Subscribe to Product Design Maker channel on YouTube: product designer maker - YouTube . PGOonline—reading presentations ahead of the lessons	Cross-curricular links 	Aspects of the project that link	Computer Science—manufacturing systems. Maths—multi topic application. Science—material properties
Skills 	Specific skills you will learn and use during the project.	Practical skills: thermo forming and wood working; researching; analysing and evaluating; time management.	Looking forward to the NEA & EXAMINATION: 	Aspects of the project related to further study of Design & Technology at GCSE.	Students will practise design communication skills in preparation for NEA. Theory content for examination
Knowledge 	Specific knowledge you will obtain throughout the project.	Design history; design theory; digital design & manufacture; design processes; technology; modern and industrial practices.	Building challenge 	Tasks that encourage you to test yourself and exceed targets/expectations.	Building challenge: students will be expected to develop design communication skills at an advanced level to GCSE; marker rendering; colour blocking...
Literacy 	Aspects of the project that will improve your reading, writing, spelling, grammar and comprehension.	Students will present research in own words - develop academic language skills and application of subject specific keywords.	Careers 	Aspects of the project that display the relevant career paths that can be taken using the skills and knowledge acquired.	Engineer; product designer; CAD designer
Maths 	Aspects of the project that will develop your attainment in Maths related to Design & Technology.	Measuring: jig/fixture creating using close tolerances - measuring and marking out from mathematical planning	PSHE/SMSC 	Aspects of the project that consider the spiritual, moral, social and cultural impact of the project and its adherence to British values.	Spiritual: design bio and students presenting to class about own interests and background, respecting each others values and opinions. Moral: respecting each other. Social: working co-operatively. Cultural: celebrating diverse cultures and design backgrounds.

Unit 10: Modern, Industrial & Commercial Practice Unit
 13:Design Methods; Unit 14: Design Processes

Transition booklet; 2D & 3D sketching communication skills;
 Line bending Jigs & Fixtures project
 Baseline Test & end of Transition review

Links between learning in KS4 that prepare you for this cycle

Prior learning from KS4

Practical skills are built upon.

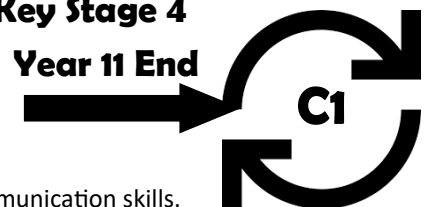
Material Knowledge is deepened.

Students have foundation knowledge of Design History and Design Communication skills.

Examination skills practiced are applied to base line test in Year 12

Key Stage 4

Year 11 End



Yr12

Key Stage 5

A Level Product Design

Cycle 1

Week	Lesson	Topic	Task/project	Spec point	Page No.	Homework	Independent study: <i>5 hours per week</i>	Assessment
1&2 UNIT 13	1	Introduction to course	Design Bio	3.2.2 Design Theory	40	Complete Design bio <u>Challenge:</u> include your own design work/product from GCSE <u>Further Challenge:</u> include bio of favourite design style/designer	Unit 13: Design Methods PGOonline 1: Design Methods & Processes—w/s & h/wrk Transition booklet	Design Bio: WWW & EBI & student presentation Unit 13: 1—self assess and improve
	2	Designers & their work Unit 13: 3	A3 moodboard: research all 6 designers on specification Unit 13—3: Worksheet 3	3.2.3 How technology & cultural changes impact on the work of others	41		Complete research Unit 13:3—Designers and their work—homework 3	Unit 13: 3—Designers & their work—self assess and improve
	3	Design styles & movements Unit 13: 2—Design Influences	Research task Worksheet Unit 13—2	3.2.2 Design Theory	40		Unit 13: Design Methods PGOonline 2: Design Influences—h/wrk Design movement table of research task 1hour	Unit 13: 2—Design Methods —self assess and improve
	4	Socio economic influences	Presentation: utility etc: Worksheets/notes	3.2.1 Designing and making principles	39		Unit 13: 4—Socio & economic influences—w/s & h/wrk	
	5	Design process: Product analysis and evaluation <u>In class transition assessment</u>	Product comparison: pp & discussion: PP of tables: different retailers. Discussion and comparison.	3.2.1 Design methods and processes	39	Complete Product comparisons <u>Challenge:</u> can you include any primary research? <u>Further Challenge:</u> Include company information about company ethos.	Unit 13: 6—Social considerations—w/s & h/wrk Transition booklet	Product comparison—WWW & EBI Unit 13: 6—Social considerations—self assess and improve
	6	Unit 13: 7—Product Life Cycle	Worksheet—exam style questions	3.2.3 How technology & cultural changes impact on the work of others	41		Unit 13: 7—Product Life Cycle—h/wrk 1 hour	Unit 13: 7—Product Life Cycle—self assess and improve
	7	2D/3D sketching	I can draw' video :sketchbook outcomes	3.1.14 Design Communication	38		Practice techniques to consolidate skills Transition booklet	Sketching: WWW & EBI Sketchbook improvements and sketching progress.
	8	2D/3D sketching	Continuous line, contour and construction lines: videos and practice	3.1.14 Design Communication	38		Complete full page of design layout practice	Improvements on drawing outcomes
	9	2D/3D sketching: perspective drawings <u>End of Unit 13 Assessment</u>	Perspectives tasks: timed. Independent followed by teacher instruction Room layout in 1 point perspective 1 & 2 point perspective consolidation	3.1.14 Design Communication	38	A3 page of 1 point perspective drawings A3 page : street scene in 2 point perspective <u>Challenge:</u> render your work effectively <u>Further Challenge:</u> practice further by drawing products in the home in perspective drawing	Practice drawing techniques: use videos given in resources/pp	WWW & EBI: A3 1 point perspective drawing task A3 street scene 2 point perspective

A Level Product Design

Cycle 1

Week	Lesson	Topic	Task/project	Spec point	Page No.	Homework	Independent study: 5 hours per week	Assessment
3&4 UNIT 10	10	<u>MOCK Revision</u> Quality control & Quality Assurance Unit 10: Industrial Practice—3: Computer Systems	W/S: questions W/s 3: computer systems	3.2.9 Design for manufacture and project management	47	Question w/s on tolerances <u>Challenge:</u> research an industry example of how tolerances are applied during manufacture. <u>Further challenge:</u> watch 'Inside the Fac-	Unit 10: Industrial Practice—3: Computer Systems: h/wrk 3	Unit 10: Industrial Practice—3: Computer Systems: h/wrk 3—self assess and improve
	11	Product Analysis: material suitability.	Exam practice questions	3.1.1 Materials and their applications	2		Unit 10: Industrial Practice—2: Efficient use of materials—w/s & h/wrk	Unit 10: Industrial Practice—2: Efficient use of materials—w/s & h/wrk—self assess and improve
	12	Product comparison and material properties	Mechanical and physical properties Complete 9 mark and 8 mark exam question using PEEL	3.1.1 Materials and their applications	2		QC & QA Q's Quality Control worksheets Physical and working properties worksheet	WWW & EBI of examination questions
	13	Design theory: 'Form follows function'. Dieter Rams, Bauhaus	PP of 'form follows function' design theory. Research task for deeper understanding with product examples	3.2.2 Design Theory	40		Revision Unit 10: Industrial Practice: - 5: Modelling—w/s & hm/wrk	Examination question responses and feedback Unit 10: Industrial Practice: - 5: Modelling—w/s & hm/wrk—self assess and improve
	14	Technological Advancements/developments Unit 10: Industrial Practice—4: Digital Design	Examination style question practice W/s 4: digital design	3.2.3 Major Developments in Technology	41	Mechanical & Physical properties questions—consolidation <u>Challenge:</u> create a table of different materials and list their mechanical & physical properties <u>Further challenge:</u> create revision flash cards	Unit 10: Industrial Practice—4: Digital Design: h/wrk 4	Unit 10: Industrial Practice—4: Digital Design: h/wrk 4—self assess and improve
	15	Printing processes	Research task	3.1.1 Materials and their applications	2		Fabrication worksheet	Examination question responses and feedback
	16	Unit 10: Industrial Practice—1: Scales of production	w/s 1: scales of production	3.1.6 Modern industrial and commercial practice			Unit 10: Industrial Practice—1: Scales of production—h/wrk 1: scales of production	Unit 10: Industrial Practice—1: Scales of production—h/wrk 1: scales of production—self assess and improve
	17	<u>End of Unit 10 Assessment</u>	Examination style questions	3.1.6 Modern industrial and commercial practice 3.1.7 Digital design and manufacture			Revision	End of Unit assessment
	18	Polymer processes: vacuum forming & injection moulding	Research task	3.1.4 Forming, redistribution and addition processes			Revision	

A Level Product Design

Cycle 1

Week	Lesson	Topic	Task/project	Spec point	Page No.	Homework	Independent study: 5 hours per week	Assessment
5&6 UNIT 14	19	Unit 14: Design Processes—1: Use of design process	w/s 1: Use of design processes	3.2.4 Design processes		Revision Drawing practice: making improvements as response to feedback	Unit 14: Design Processes—1: Use of design process: h/wrk1: Use of Design processes	Unit 14: Design Processes—1: Use of design process: h/wrk1: Use of Design processes—self assess and improve WWW & EBI of drawing improvements
	20	Unit 14: Design Processes—2: Prototype Development	w/s 2: Prototype Development	3.2.4 Design processes		Revision Drawing practice	Unit 14: Design Processes—2: Prototype Development: h/wrk 2: Prototype Development	Unit 14: Design Processes—2: Prototype Development: h/wrk 2: Prototype Development —self assess and improve
	21	Unit 14: Design Processes—3: Industrial Contexts	w/s 3: Industrial Contexts	3.2.4 Design processes		Revision Drawing practice: making improvements as response to feedback	Unit 14: Design Processes—3: Industrial Contexts: h/wrk 3: Industrial Contexts	Unit 14: Design Processes—3: Industrial Contexts: h/wrk 3: Industrial Contexts —self assess and improve WWW & EBI of drawing improvements
	22	Unit 14: Design Processes—4: Critical Analysis	w/s 4: Critical Analysis	3.2.5 Critical analysis and evaluation		Revision	Unit 14: Design Processes—4: Critical Analysis: h/wrk	Unit 14: Design Processes—4: Critical Analysis: h/wrk —self assess and improve
	23	Unit 14: Design Processes—5: Third Party Testing	w/s 5: Third Party Testing	3.2.5 Critical analysis and evaluation		Revision	Unit 14: Design Processes—5: Third Party Testing: h/wrk	Unit 14: Design Processes—5: Third Party Testing: h/wrk —self assess and improve
	24	Unit 14: Design Processes—6: Tools	w/s 6: Tools	3.2.6 Selecting appropriate tools, equipment and processes		Revision	Unit 14: Design Processes—6: Tools: h/wrk	Unit 14: Design Processes—6: Tools: h/wrk —self assess and improve
	25	Unit 14: Design Processes—7: Accuracy in Design	w/s 7: Accuracy in Design	3.2.7 Accuracy in design and manufacture		Revision	Unit 14: Design Processes—7: Accuracy in Design: h/wrk	Unit 14: Design Processes—7: Accuracy in Design: h/wrk —self assess and improve
	26	Unit 14: Design Processes—End of Unit Assessment	Examination style questions Exam techniques			Revision	Unit 14: Design Processes—End of Unit Assessment: h/wrk	WWW & EBI of questions
	27	Mock Exam—In class 2hours	End of transition assessments					

My Expected Grade				
Teacher Assessed Grade (circle)				
SBE	BE	E	AE	SAE
Comment:				

Student Self Evaluation

WWW	EBI
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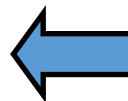
LEARNING TOOLS

Tick when you think you are able to define the meaning of the keyword

KEYWORDS	Design Move-	Product Comparison	Iconic	Dieter Rams
Streamlining	Modernism	Bauhaus	De Stijl	Art Deco
Utility furniture	Philippe Starck	Contour line	Continuous line	Construction

Challenge!

Add more keywords/terms to the table



Why are we exploring the work of others?

You are researching the work of others so that you:

- ◆ Can begin to form an understanding of how design changes over time
- ◆ Can explain why design changes over time
- ◆ Can reference and use this information to help you answer questions in the your examinations and also enhance your design portfolio for the NEA

Why are we researching material properties & their suitability?

- If you can demonstrate understanding of material properties you will be able to apply this knowledge ytto both your NEA and the examinations.
- Understanding characteristics of material helps us make appropriate choices for our product concepts.

Why should I have a full understanding of Quality Control & Quality Assurance?

All products must conform to safety standards and you must be able to assess how this might be achieved an a mass scale.