

Yr11 DT Learning Intentions – Term 1

	Lesson 1	Lesson 2	Lesson 3
Week 1	<p>New and emerging technologies - Industry Students should know and understand the impact of new and emerging technologies on:</p> <ul style="list-style-type: none"> • the design and organisation of the workplace including automation and the use of robotics • buildings and the place of work 	<p>Investigation using Primary and Secondary data. How to effectively use:</p> <ul style="list-style-type: none"> • market research and interviews • focus groups, product analysis and evaluations. 	<p>Non-Exam Assessment - NEA</p> <ul style="list-style-type: none"> • Define a design problem and complete the relevant section of the design folder.
Important events	<p>Academic reading - Rise of the robots raises a big question: what will workers do? Robots The Guardian HW – The impact of robotics on future jobs</p>		
Week 2	<p>New and emerging technologies - Enterprise Students should know and understand how enterprise can be based on the development of effective business innovations including:</p> <ul style="list-style-type: none"> • crowd funding • virtual marketing and retail • co-operatives • fair trade. 	<p>Investigation using Primary and Secondary data. How to effectively use:</p> <ul style="list-style-type: none"> • anthropometric data and percentiles. • responses to user questionnaires • relevant presentation techniques to clearly display client survey responses. 	<p>Non-Exam Assessment - NEA</p> <ul style="list-style-type: none"> • Define a design brief and complete the relevant section of the design folder.
Important events	<p>HW – The importance of ergonomics and anthropometrics when designing products</p>	<p>Formal Assessment - Ergonomics and Anthropometrics</p>	

Week 3	<p>New and emerging technologies – Sustainability Students should know and understand the ecological and social impact of resource consumption on the planet including:</p> <ul style="list-style-type: none"> • finite resources • non-finite resources • disposal of waste. 	<p>Investigation using Primary and Secondary data. How to effectively use:</p> <ul style="list-style-type: none"> • market research and interviews to identify and investigate a target market for your product. 	<p>Non-Exam Assessment - NEA</p> <ul style="list-style-type: none"> • Define a target market and complete the relevant page in the design folder. • Use ACCESSFM to develop a relevant product specification
Important events	HW - The industry creating a third of the world's waste - BBC Future –Propose alternatives to reduce waste		
Week 4	<p>New and emerging technologies – People Students should know and understand:</p> <ul style="list-style-type: none"> • How technology push/market pull affects choice. • Changing job roles due to the emergence of new ways of working driven by technological change. 	<p>Investigating the work of others. Students should:</p> <ul style="list-style-type: none"> • investigate, analyse, and evaluate the work of past and present designers and companies to inform their own designing. • Students should investigate the work of a minimum of two designers from the list given. 	<p>Non-Exam Assessment - NEA</p> <ul style="list-style-type: none"> • Research relevant existing products and undertake a product analysis. • complete the appropriate pages in the folder.
Important events	HW – Investigate, analyse and evaluate the work of the Apple design company		
Week 5	<p>New and emerging technologies – Culture Students should know and understand:</p> <ul style="list-style-type: none"> • Changes in fashion and trends in relation to new and emergent technologies. • How design can respect people of different faiths and beliefs 	<p>Design strategies Students should understand how different strategies can be applied, including:</p> <ul style="list-style-type: none"> • collaboration • user centred design • systems approach • iterative design 	<p>Non-Exam Assessment – NEA</p> <ul style="list-style-type: none"> • Produce a varied range of initial ideas with reference to the specification and with appropriate annotations throughout.

Important events	<p>Academic Reading - Ten different and everyday uses for bioplastics (dezeen.com)</p> <p>HW – Identify ways to promote recycling and waste disposal in school environments</p>	Formal Assessment – Environmental issues	
Week 6	<p>New and emerging technologies – Society</p> <p>Students should know and understand how products are designed and made to avoid having a negative impact on others including:</p> <ul style="list-style-type: none"> • the disabled • the elderly • different religious groups. 	<p>Design strategies - continued</p> <p>Students should understand how different strategies can be applied, including:</p> <ul style="list-style-type: none"> • collaboration • user centred design • systems approach • iterative design • avoiding design fixation. 	<p>Non-Exam Assessment – NEA</p> <ul style="list-style-type: none"> • Continue to produce a varied range of initial ideas with reference to the specification and with appropriate annotations throughout.
Important events	HW – Identify design issues affecting different religious groups		
Week 7	<p>New and emerging technologies – Environment</p> <p>Students should know and understand the positive and negative impacts new products and systems can have on the environment including:</p> <ul style="list-style-type: none"> • continuous improvement • efficient working • pollution • global warming. 	<p>Design strategies - continued</p> <p>Students should understand how different strategies can be applied, including:</p> <ul style="list-style-type: none"> • collaboration • user centred design • systems approach • iterative design • avoiding design fixation. 	<p>Non-Exam Assessment – NEA</p> <ul style="list-style-type: none"> • Continue to produce a varied range of initial ideas with reference to the specification and with appropriate annotations throughout.

Important events	HW – Investigate the environmental consequences of disposal bottle packaging		
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