

High Tunstall College of Science Curriculum Intent

Subject: D&T Year: 11 NEA



Topic: NEA

	Design & Technology	Progress		
Topic	Key ideas	R	A	G
NEA	Identifying and investigating design possibilities			
	Producing a design brief and specification			
	Generating design ideas			
	Developing design ideas			
	Realising design ideas			
	Analysing & evaluating			

Lesson	Learning Focus	Assessment	Key Words
1-2	Experimental research to begin a prototype.	Pupils to Extensively experiment using excellent communication and using a wide range of techniques. This may be through modelling, designing or testing. All work produced must be linked to a clients needs and wants.	Design possibilities, client, needs, wants, society, economic.
3	Imaginative designing which has been informed by the experimentation to begin to create a prototype.	Pupils to use imaginative and different design strategies for different purposes and as part of a fully integrated approach to designing. This may be through designing, modelling or testing. All work produced must be linked to a clients needs and wants.	
4	Using accuracy and measurements and apply them to the testing and prototype.	Pupils need to use a high level of quality control to ensure the prototype is accurate.	
5-6	Experimentation with testing different parts of the prototype.	Pupils to test and model using the correct tools, materials and equipment (including CAM where appropriate) and are consistently used or operated safely with an exceptionally high level of skill.	
7	Testing needs to be documented within the folder.	Pupils to test and model using the correct tools, materials and equipment (including CAM where appropriate) and are consistently used or operated safely with an exceptionally high level of skill.	Design brief and specification.
8-10	Using accuracy and measurements and apply them to the testing and prototype.	Pupils need to use a high level of quality control to ensure the prototype is accurate by consistently applying very close tolerances.	Imaginative, innovative, creative.
11-12	Planning of the prototype using the testing.	Pupils need to produce a prototype which shows an exceptionally high level of making/finishing skills that are fully consistent and appropriate to the desired outcome.	
13-15	Pupils need to manufacture and realise their ideas into a prototype.	An exceptionally high quality prototype that has the potential to be commercially viable has been produced and fully meets the needs of the client/user.	High level of demand, accuracy, manufacturing.