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**Knowledge Rich Curriculum Plan**

GCSE Design Core

Specialist Technical Principles - 2.1 Selection of materials and components



| **GCSE Design Core** | **Specialist Technical Principles  2.1 Selection of materials and components** |  |  |  |
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| **Lesson/Learning Sequence** | **Intended Knowledge:**  *Students will know that…* | **Tiered Vocabulary** | **Prior Knowledge:**  *In order to know this students, need to already know that…* | **Assessment** |
| **Lesson:**  **Selection of materials and components** | * Students will know the factors that affect a designer * Students will know that the factors affecting a designer are cost, functionality, availability of materials, social factors, ethical factors, moral factors, environmental factors and aesthetics * Students will know the term aesthetics refers to the look of something * Students will know that the ethical factors refer to if something is considered right or wrong * Students will know that the moral factors are refer to if something should be done * Students will know that the environmental factors refer to how something impacts the environment * Students will know that the cultural factors refer to how different products are designed for different people | Ethical: relating to moral principles or the branch of knowledge dealing with these.  Moral: concerned with the principles of right and wrong behaviour.  Cultural: relating to the ideas, customs, and social behaviour of a society.  Environmental: the surroundings or conditions in which a person, animal, or plant lives or operates.  Aesthetics: the branch of philosophy which deals with questions of beauty and artistic taste. | * ***Students need to already know the terms social, moral and cultural from RE lessons*** * ***Students need to already know some factors that can affect a designer*** * ***Students need to already know how products have changed to help the environment*** * ***Students need to already know the impact products have on the earth*** | How does a designer play a role in climate change?  Do moral and ethical issues play a role for a designer? |