

Product Development Questions



1. A health food restaurant named “Healthy Foods” would like to re design the furniture in their children’s area. Describe the roles of the client, the designer and the manufacturer and the user in the product development of new tables and chairs. (8)



© LEVV Home Products

2. Suggest two different types of research that the designer will need to carry out when designing this computer workstation. In each case explain why it is necessary to carry out this type of research. (4)
3. Explain why it is important for designers to protect their ideas (4)
4. Describe the various methods that a manufacturer would use to ensure that the consumer receives a high quality product (4)
5. Explain why designers make models of their ideas during the design process (4)
6. Identify which of the following describes market pull (1) There is a public demand for a product to be designed and made, a material has a high tensile strength, an entrance to a shopping centre
7. Identify which of the following correctly describes technology push – old products are made obsolete, advances in technology enable new products to be designed and made, a material that has a high compressive strength (1)
8. On the diagram below use straight lines to link the products to the most suitable category (5)

Products

Microwave oven
Self-cleaning glass
The latest mobile phone
Car booster seat
Wind up radio

Categories

Market-pull

Technology-push



9. Identify and describe two features of the electronic toothbrush that show the designer has thought about product maintenance (4)
10. Explain why it is important for a designer to think about maintenance when designing products (4) also appeared as an 8 mark qu



11. Identify three components found on the mountain bike that require maintenance (9)

Component	Maintenance operation