Y8 DTE KNOWLEDGE ORGANISER HT1 - LAMP PROJECT

Investigation and Research

Primary Data -Interviews -Focus Groups -Questionnaires -Case Studies

Secondary Data -Articles -Books -Magazines -ONS



Ergonomics

-The science of how humans interact with objects -Design for efficiency and comfort in the working environment

Anthropometrics

-Measurement of the physical properties of the human body

THE WORK OF OTHERS

Researching the work of others is a key step in any design process -Inspires new ideas -Understand materials -Look at similar and dissimilar products

SIGN BRIEF

Summarise your design plan: -What you are going to design -Target audience -Where the product will be used -What the budget is -What size it needs to be

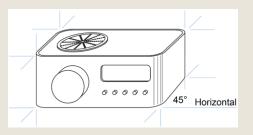
2D and 3D sketching

- 2D drawings are good for expressing ideas,
- dimensions, mechanical and electrical concepts
- 3D drawings are better at representing the look and feel of an object

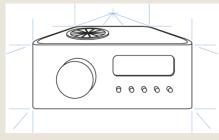
Exploded drawings

An exploded drawing shows how component parts of a product are assembled Discuss how these diagrams can be useful

Oblique Projection



One Point Perspective



Three Point Perspective -

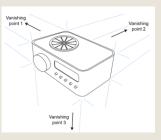


Isometric projection



Two Point Perspective





Y8 DTE

DESIGNERS & DESIGN COMPANIES

HT1 – LAMP PROJECT

Alessi

Founded by skilled metalsmith, Giovanni Alessi in 1921, producina traditional items for the home The company combined traditions with forward thinking ideas to create a series of finely crafted design wares



Apple

In 1976 Steve Jobs, Ronald Wayne and Steve Wozniak founded Apple Their aim was to help make computing simpler and enjoyable



UNDER ARMOUR

Founded in the USA, in 1996 by Kevin Plank, then a 23 year old football

Frustrated by having to regularly change his sweat-soaked cotton Tshirts, he decided to find a more effective material



DESIGN STRATEGIES

There are a variety of strategies that to complete a design project:

- Collaborative design
- Systems approach

Each method has its own positives, and they can be used together

DESIGN MOVEMENTS

Styles and fashions change. Artists and designers take the lead in these changes and often form themselves into groups to promote their work

Recognised art and design movements include:

Arts & Crafts Movement 1853 – 1907: Morris

Art Nouveau 1880 – 1910: Tiffany

Art Deco 1908 – 1935: Mackintosh

De Stijl 1917 - 1931: Rietveld

Bauhaus 1919 - 1933: Breuer

Post-Modernism 1970 – 1990: Rossi

Memphis 1981 – 1988: Sottsass



Harry Beck 1902-1974

Best known for redesigning the London Underground map -People do NOT need to know the distance between stations -Recognised as a design template for transport maps around the World

Marcel Breuer 1902-1981

Influential Hungarian designer and architect As a student of Bauhaus, Breuer produced the first tubular steel furniture Cesca, a chair made of a single curved piece of steel



Sir Alec Issigonis 1906-1988

Designer famed for the Morris Minor and Mini His designs had more impact on Britain's post war motor industry than any other designer

The Morris Minor was the first car to sell over a million units



Aldo Rossi 1931-1997

An Italian architect and product designer Highly regarded for his original and geometric forms, he became an outstanding figure of post modern architecture

