



Design and Technology Knowledge organiser

Core Skills

The Design Process

Design Brief	A statement outlining what is to be designed and made
Specifications	A detailed description of the design and materials used to make a product.
Research	Sourcing information for inspiration, investigation and analysis
Ideas	Selection of ideas of 2D and 3D visual communications
Development	Modifications and changes in response to feedback and evaluation against the brief
Final idea	A presentation drawing of chosen idea which satisfies the brief
Manufacture	Making the final outcome
Plan of Make	Type of diagram that represents the process of the product being made
Evaluation	Reviewing strengths and weaknesses of final product and design work

SKETCHING

- Practice basic shapes
- Ensure you hold your pencil correctly
 - Lean lightly
 - You don't need continuous lines
- remember mistakes happen, that's fine, erase and go again!

ADDING COLOUR

- Shading is all about where the light hits
- Sometimes less is more
- shade/colour should help your ideas look realistic

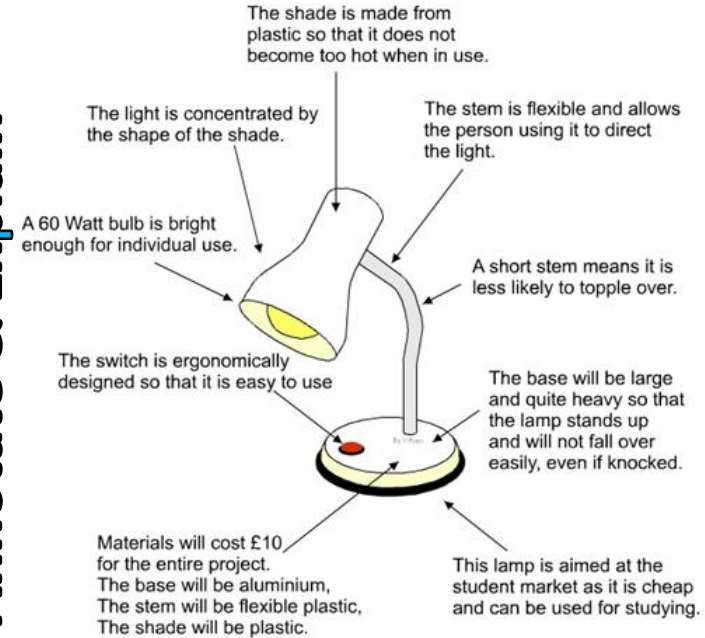
ANNOTATIONS

- Use ACCESSFM to ensure you cover all important points
- Always explain WHY you have chosen important design features
- Keep it Clear

CREATIVITY

- Don't copy other ideas
- Think about improving what already exists
- Draw from key design influences
- Never play it safe, go mad!

Annotate & Explain



Key Vocabulary

- ★ Client
- ★ Design Brief
- ★ Research
- ★ Inspiration
- ★ Designer
- ★ Design Process
- ★ Existing Products
- ★ Developed Design
- ★ Concept Sketches
- ★ Modelling
- ★ Prototype
- ★ Technical Design
- ★ Manufacture
- ★ Retail
- ★ Influence
- ★ Specialist
- ★ Solved
- ★ Problem
- ★ Sustainability
- ★ Biomimicry
- ★ Technological Advancement
- ★ Culture
- ★ Economy



Aesthetics



Cost



Customer



Environment



Size



Safety



Function



Materials

ACCESS FM



Longest gradation lines represent every centimetre

The medium length gradation marks show every half a centimetre

The shortest gradation marks show the millimetres

