



Design & Technology

Personal Learning Checklist

GCSE Graphics

Below is a PLC for your GCSE Mock exam. Each topic appears in the specification and you must revise its contents. Use the RAG system to highlight your areas of strength and development and make a note of where you can get information from to support you with your revision preparation.

Topic Area 1. Materials and components	R	A	G	Comment
Paper				
Cartridge paper				
Tracing paper				
Paper sizes A1-A6				
Cardboard				
Boxboard				
Corrugated board				
Solid white board				
Foil-lined board				
Pack laminate e.g. Tetra Pak				
Polythene+aluminium foil+paperboard				
Metals				
Steel (ferrous)				
Aluminium & Tin (non-ferrous)				
Plastics (Polymers)				
Acrylic				
PET				
PVC				
Polypropylene PP				
Polystyrene PS				
Styrofoam				



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1. Materials and components	R	A	G	Comment
Glass				
Wood				
Jelatong & Balsa (Hardwood)				
Pine (softwood)				
Composites				
Carbon fibre				
MDF (medium density fibreboard)				
Modern and SMART materials				
Polymorph				
Thermochromic film				
E-paper				
Transdermal drug patches				
Holographic film				
Biopol				
Bindings				
Spiral binding				
Saddle stitching (stapling)				
Perfect binding				
Case bound books				

2. Processes and manufacture	R	A	G	Comment



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Scales of Production				
One-off production				
Batch production				
Mass production				
Modelling				
Jelatang and balsa modelling				
MDF block modelling				
Stereolithography rapid prototyping				
3d printer				
Card modelling				
Forming				
Line/strip bending				
Vacuum forming				
Oven and MDF formers				
Fixing				
PVA glue				
Tensol glue				
Polystyrene glue				
Epoxy resin				
Spray mount				
Glue stick				
Hot glue gun				
Finishing				
Laminating				
UV Varnishing				
Foil blocking				
Embossing				



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Die cut				
2. Process and manufacture	R	A	G	Comment
Printing				
Off set litho				
Flexography				
Screen printing				
Gravure				
Photocopying				
Four colour printing (CMYK)				
Packaging				
Boxboard packs				
Blister Packs				
Polymer containers				
Health and safety in workshop				
Scale of production				
Flow Diagram				
3. Design and market influences				
Specification / design criteria				
Aesthetics ;Form				
Client; user needs.				
Cost of product: Scale of production				
Environment; Sustainability				
Safety				
Scale of Production				
Function; how it works. FITNESS FOR PURPOSE				
Use of materials (see 1)				
Use of manufacture (see 2)				



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Produce a range: 3 varied product designs				
Annotation: Reasoned notes using Specification criteria				
Letter fonts / typography				
Cartoon characters and symbols				
How to colour render material surfaces				

Using clear sketches and notes				
Notes using a Specification				
Notes detailing the reasons for choosing Materials and Manufacturing techniques (see 1 & 2).				
Evaluating products using Specification criteria				
Packaging design including nets				
Card modelling				
3d sketching				
Isometric drawing				
Single point perspective drawing				
Two point perspective drawing				
3 rd Angle Orthographic drawing				
Wally Olins				
Margaret Calvert and Jock Kinnear				
Robert Sabuda				
Alberto Alessi				
Harry Beck				
4. Paper and card engineering				
Electronic communication (email) and advantages communicating between designers and manufacturers.				
EPOS (Electronic point of sale)				
Internet marketing				



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Digital media				
Bluetooth				
Digital and HD TV				
RFID				
CAD/CAM				

Technology and ICT	R	A	G	Comment
2d design				
Desktop publishing (DTP)				
Stereolithography				
Laser cutting				
Vinyl cutting				
Sustainability				
Principles of				
Reduce materials and energy				
Reuse materials and products				
Recover energy from waste				
Recycle materials and products				
Renewable energy:- Wind turbines, Solar energy and Biomass				
Kyoto protocol				
Cultural				
Built in obsolescence for throw away packs/products				
Manufacture of mass produced products by developing countries				
Inoffensive images on packs for different countries/cultures				

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