GCSE Graphics Theory List

- [ ] Paper sizes
- [ ] Thickness of paper and board
- [ ] Properties of paper, board and other graphic materials like Spiral wound tubes
- [ ] Print finishes (varnishing, laminating, embossing, encapsulation; and foil application)
- [ ] Printing Processes
- [ ] Die cutting
- [ ] Tessellation
- [ ] The four processing colours
- [ ] Properties of thermoplastics
- [ ] Properties of sheet and block modelling materials and their uses
- [ ] Smart / modern materials
- [ ] Adhesives
- [ ] Tools
- [ ] Components

- [ ] CAD/CAM and ICT
- [ ] Health and safety issues
- [ ] Scales of production
- [ ] Just in time production' (JIT)
- [ ] Quality
- [ ] Packaging for protection, need in transportation, storage, security, display, giving consumer information
- [ ] Copyright, patents and registered designs

- [ ] One point and two point perspective
- [ ] Annotated 2D and 3D freehand drawings
- [ ] Accurate isometric work (including crating)
- [ ] 3rd angle orthographic projection (British Standard Conventions (BS8888, 2006))
- [ ] Self assembly, sectional and exploded drawings
- [ ] Scale drawings
- [ ] Use grids
- [ ] 3 tone shading
- [ ] Texture of materials and surfaces
- [ ] 2D Design
- [ ] Adobe Photoshop
- [ ] Fonts & lettering
- [ ] Interpret room, site plans and maps (including schematic maps)
- [ ] Surface development (nets)
- [ ] Presentation drawings (final designs) & the use ICT to promote the final design to the client
- [ ] Produce pictograms and symbols
- [ ] Function and uses of corporate identity
- [ ] Labels and signage
- [ ] Designers

- [ ] Target marketing' and 'gap in the market' identification are used to promote a product
- [ ] Represent data in graphical form; i.e. 2D and 3D bar and pie charts, line graphs and pictographs
- [ ] Flowcharts with feedback loops
- [ ] Produce sequential illustrations
- [ ] Life-cycle (introduction, evolution, growth, maturity, decline and replacement)
- [ ] Needs and wants of customers
- [ ] Social, Cultural, Moral, Environmental, Economic and Sustainability Issues
- [ ] Cost, flexibility, finish, rigidity, strength, quality, weight, environmental and sustainable issues;

- [ ] Mechanisms
- [ ] Levers and linkages
- [ ] Pop-up mechanisms

- [ ] Models and prototypes
- [ ] Testing
- [ ] Evaluation techniques (inlcuding evaluating against the design specification)