A Level Design and Technology – Revision List June 2023

Topics to revise are as follows:

Paper 1 – Technical Principles –2 hours 30 minutes

- Smart and new materials?
- Malleability and elasticity
- Sustainability throughout manufacture
- High speed steel
- Percentages
- Ergonomics and Anthropometrics?
- Properties of materials?
- Sustainability in manufacturing?
- High speed steel?
- Calculating percentages?
- Injection moulding?
- Soft soldering?
- Analysing Data from Electronic point of sale (EPOS system) can be used?
- Silicone??
- Phosphorescent pigment?
- Risk assessments?
- Concrete?
- Histogram
- Bio-batch polymer
- Danish oil
- Prototypes
- Calculating angles
- Beech v ABS toys
- Polypropylene
- Vehicle signage digital printing or vinyl cutter
- Architectural models

Paper 2 – Designing and making Principles – 1 hour 30 minutes

- 1. Comparing materials, processes and power sources of a product
- 2. Packaging
- 3. Phillipe Starck
- 4. Designing for all users
- 5. Direct current motor?
- 6. Torque?
- 7. Calculating torque?
- 8. Volume
- 9. X-ray testing?
- 10. Bauhaus?
- 11. Project management systems to benefit designers and manufacturers?
- 12. Iterative design process?

- 13. Zinc alloy?
- 14. Die casting- design modifications, machinery preparation and quality assurance?
- 15. Cantilever chair made from laminated veneers?
- 16. Calculating dimensions from circular arcs and straight lines?
- 17. Analysing and evaluating data?
- 18. Product life cycles?
- 19. Target market pull and technological push?
- 20. International Standards Organisation (ISO) standards?