



## Topic Lists for Revision

### Subject: Design & Technology

### Topic or component: Written exam (PPE 1)

#### Core Principles

- Industry & Enterprise
- Smart, modern & composite materials
- Papers and boards
- Sustainability and the environment
- People, culture, and society
- Hardwoods and softwoods

#### Specialist technical principles

##### Common principles

- Ecological and social footprint
- Scales of production

##### Paper and boards

- Sources, origins, and properties
- Working with papers and boards (components)
- Stock forms, types & sizes
- Commercial manufacturing (Lamination & Offset lithography)
- Surface treatments & Finishes

##### Timber based materials

- Sources, origins, and properties
- Working with timber based materials (components)
- Stock forms, types & sizes
- Commercial manufacturing (Lamination & Tanalising)
- Surface treatments & Finishes

##### Metal based materials

- Commercial manufacturing (Soldering)

#### Designing and making principles

##### Designing principles

- The six R's
- Ergonomics
- Product analysis
- Interpreting & displaying data
- Mathematics
- Social impacts (Colour association)
- Environmental impacts (timbers)

### **Making principles**

- Selection of materials and components
- Specialist tools & equipment

### **Strategies and Resources for Revision:**

**Revision materials available via class charts**