Nothing complicated here, just a simple checklist for all the things you need to know for your exam... Simples!

**Materials & Components**

**Paper & Card**
- Layout
- Corrugated Card
- Cartridge
- Duplex board
- Tracing
- Solid White board
- Grid
- Foam core board
- Card

**Properties: Understanding different properties and**
- Communication Media
- Manufacturing products e.g. packaging

**Common Components**
- Fasten
- Pour
- Seal
- Join
- Hang
- Bind
- Index

**Stock Forms for paper & board**
- size
- Weight
- Thickness
- colour

**Processes**
- laminating
- Foil backing
- Pulp sourcing & conversion to workable mater-
Design & Market Influences

Evolution of Product Design

- Development of ideas, materials & manufacturing processes
- Social changes
- Political changes
- Design movements
  - Art deco
  - Bauhaus
  - De Stijl
  - Arts & Crafts movement
  - Manufacturing Industries (C.I.)
- Technological push

Design Influences

- Design movements
- Continuous improvements (C.I.)
- Marketing pull

Design in Practice: Product Development

- Design Brief
- Specification
- Respond to research
- Inclusive design
- Accuracy in function
- Dimensions & tolerances
- ICT software
- Cad Modelling
- Copyright
- Patents
- Registered designs

Designing starting points:

- Natural form, pattern & structure
- Geometry & maths
- Detailed product analysis
- Cultural & religious influences

Packaging

- Materials
- Processes
- Environmental concerns
- Sustainability

Functions of packaging:

- protect
- contain
- preserve
- inform
- transport
- display (promote)

Product Labelling:

- hazards
- maintenance
- disposal

Product Marketing

- Branding
- Advertising
  - leaflets
  - Flyers
  - Point of sale displays
  - Packaging
  - Digital media

Design in the Human Context

Human Factors

- Understand the wide range of human factors which can influence design, to produce inclusive products
- Access
  - anthropometrics
  - 5th—95th percentile
- Social, economic & ethnic groups
  - Disabled
  - Religious groups
- Manufacturing systems
- Working triangles (kitchen)
  - Production lines
- Assembly lines

Safety

- Safety with regard to themselves, manufacturer & user
  - Moral & Legal responsibility
  - Safety testing
  - Risk assessment

Quality

- Suitable quality for the user
  - Subjective criteria
  - Resource availability
  - Cost
  - Commercial methods used to improve quality assurance
    - Quality circles
    - B.S. EN ISO 9000
  - Identify critical quality control points during development to improve products

Ethical, Environmental & Sustainability Issues

- Consider ethical, environmental & sustainability issues relating to:
  - Fair trade
  - Product miles
  - Carbon footprint
  - Product disposal

- Understand the following principles:
  - Re-use
  - Repair
  - Rethink

- Knowledge & understanding of factors relating to recycling/reusing materials or products:
  - Material identification
  - Processing
  - Energy costs

- Knowledge & understanding of governing environmentally friendly products, ‘Green Designs’ & identify them
  - Which? Reports
  - Standards & Agencies, implications of standards in designing
    - ISO
    - BSI

Consumer Issues

- Knowledge & understanding of consumer groups & pressure groups and the way products are evaluated
  - ISO
  - BSI

- Product legislation