

Year 10 PPE revision list: below is a list of topics that will come up in your exam, it would be useful to RAG rate the topics to identify gaps in your learning and priorities for revision.

Topic	Red (no knowledge)	Amber (familiar)	Green (secure)
Materials – Metals – non ferrous/ferrous			
Materials – Woods – hardwood/softwood			
Materials – Woods – Manufactured boards			
Materials – Plastics – Thermosetting/Thermoplastics			
Materials – Smart Materials			
Materials – Paper & Board			
Materials – textiles – natural fibres & technical textiles			
Materials – how they are available in their stock forms			
Materials – how they are available from their primary source			
Materials – how to finish materials & why?			
Production methods – JIT/CAM/Flexible manufacturing			
Production methods – mass/batch/continuous production			
Renewable energy			
Fossil fuels			
Designing principles – understanding the needs of the client			
Designing principles - ergonomics			
Designing principles - anthropometrics			
Designing principles - aesthetics			
Designing principles - specifications			
Designing principles – modelling techniques			
Drawing techniques – third angle orthographic projection			
Drawing techniques – isometric drawing			
Forces – compression/shear/tension/torsion			
Design & society – fairtrade/ethical choices			

There will be mathematical questions to solve, you will need to come prepared for the exam with:

- Normal writing and drawing instruments
- A calculator
- A protractor

THESE WILL NOT BE PROVIDED FOR YOU