

Revision

Checklist – Design & Technology

UNIT 1 - NEW AND EMERGING TECHNOLOGIES			
TASK	COVERED IN CLASS	✓	X
1.1 Industry and enterprise			
1.2 Sustainability and the environment			
1.3 People, culture and society			
1.4 Production and techniques systems			
1.5 Informing design decisions			

UNIT 2 - ENERGY, MATERIALS, SYSTEMS AND DEVICES			
TASK	COVERED IN CLASS	✓	X
2.1/2 - Energy			
2.3/4 – Smart & Modern Materials			
2.5 – Modern Materials			
2.6 - Systems approach to designing			
2.7 - Electronic systems processing			
2.8 - Mechanical Devices			

UNIT 3 - MATERIALS AND THEIR WORKING PROPERTIES			
TASK	COVERED IN CLASS	✓	X
3.1 - Papers and boards			
3.2 - Natural and Manufactured timbers			
3.3 - Metals and alloys			
3.4 – Polymers			
3.5 - Textiles			



UNIT 4 - COMMON SPECIALIST PRINCIPLES			
TASK	COVERED IN CLASS	✓	X
4.1 – Forces and Stresses on Materials			
4.2 – Improving Functionality			
4.3 – Footprints			
4.4 – The 6 R's			
4.5 – Scales of Production			

UNIT 5 - SPECIALIST MATERIAL AREAS			
TOPIC	COVERED IN CLASS	✓	X
5.1 Papers and boards:			
a. Sources, Origins and properties			
b. Working with			
c. Commercial Processes			
5.2 Timbers			
a. Sources, Origins and properties			
b. Working with			
c. Commercial Processes			
5.3 Metals and Alloys:			
a. Sources, Origins and properties			
b. Working with			
c. Commercial Processes			
5.4 Polymers:			
a. Sources, Origins and properties			
b. Working with			
c. Commercial Processes			



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UNIT 6: DESIGNING PRINCIPLES			
TOPIC	COVERED IN CLASS	✓	x
Primary and Secondary data			
The work of others			
Design Strategies			
Communication and Development			

UNIT 7: MAKING PRINCIPLES			
TOPIC	COVERED IN CLASS	✓	x
Selection of Materials and Components			
Tolerances and allowances			
Material Management and Marking Out			
Specialist tools, Equipment, techniques and Processes			
Surface treatments and Finishes			