

# Design Technology: Resistant Materials Learning Journey



## Testing



Written Exam



Exam Preparation  
Making principles

NEA - AO3.F  
Analysis and evaluation

NEA - AO2.D  
Developing design ideas

NEA AO1.B  
Design Brief and  
specification



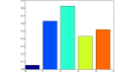
Revision



Exam preparation  
Specialist technical  
principles.

NEA - AO2.E  
Realising design

NEA - AO2.C  
Generation  
of ideas



Questionnaires /  
Interviews /  
Presenting Data

Design ideas

Practical making  
Realising prototype

Mock Written  
Exam

Contextual  
challenge review

**YEAR  
11**

NEA AO1: A  
Identifying and  
investigating  
design  
possibilities

What?

When?

Who?

Practice NEA Existing  
product investigation  
and analysis



Design Brief and  
Specification writing

Developing  
design ideas

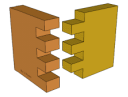
Analysis and  
evaluation.

Contextual challenges  
released



Manufacturing  
processes

Focused practical  
making – wooden  
box



The work of others  
Designer study  
Functionality needs

Metal joining  
methods

Practical making

**YEAR  
10**



Soldering  
process

Scales of  
production



Focused practical  
making – Coat hook

Problem  
solving

Product  
evaluation



Electronic  
components



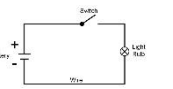
Motion  
Mechanisms

Practical making

Vacuum  
forming  
process



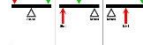
Electronic circuits



Project  
introduction  
Angle poise  
lamp



Levers and linkages



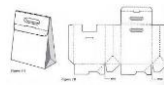
Polymers,  
classification and  
working properties



Sublimation

**YEAR  
9**

Nets and  
Packaging



Practical  
making

Cutting  
Metal



Recycling



Design  
Movements,  
developing ideas

Target market



Testing and  
evaluation



Surface finishes  
for metal



Drilling  
metal



Sustainability



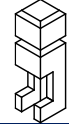
Practical  
making

Investigation  
and analysis



Practical  
making

Isometric  
drawing



Metal stock  
forms



**YEAR  
8**

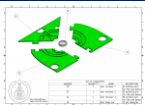


Pewter casting  
process



Cutting timber –  
scroll saw

CAD and  
CAM

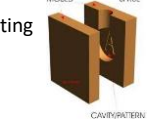


Surface  
finishing

Product  
evaluation



Metal origins  
and classification



Practical  
making

Production  
aids and Jigs

Wasting  
timber –  
chisels



Marking and  
measuring  
timber



Workshop  
Health and  
Safety rules



Welcome

**YEAR  
7**

Drilling  
timber



Wasting timber –  
sanding machine



Cutting timber with  
hand tools



Wooden stock forms



Material sources,  
Hardwood and  
softwoods

