

## **KS 4 Resistant Materials – Edexcel.**

### **Year 10.**

Safety recap.

DT subs to support and extend making.

Analysis of student performance data – Target setting.

### **1<sup>st</sup> Project.**

Design and make a Mechanical Childs Toy.

Brainstorm, Ideas, Final Design, Cutting list, Make Product, Test, Evaluate, Modify.

Duration – One term.

### **2<sup>nd</sup> Project.**

Etching – Nickel Silver.

Brainstorm of Ideas,

Final Design – Using 2D Design (CAD) linked to Roland STX7 Cutter (CAM)

Make – apply design, etch, shape, polish.

Duration ~ less than one term.

### **3<sup>rd</sup> Project.**

Wood Joint Frame.

Theory of wood joints.

Mitre, Butt, Housing, Lost-head Nail, Dowel, Countersunk Screw.

Design Frame, Dimension.

Make.

Duration ~ 4-6 weeks

### **Work Experience.**

#### **2 Weeks.**

~ Summer Half Term.

Discuss Major Project.

Finding a Suitable Problem.

Maintaining Motivation.

60% of Full GCSE Grade.

### **Start Major project.**

Maintain minimum of 1 A3 sheet per week.

### **Year 11.**

Continue Major Project.

Yr 11 Mocks ~ end of Nov/Dec.

Final Design finalised before Christmas.

Students to be ready to start making on return from Christmas break.

Project deadline ~ first Friday after Spring half term.

See Full project outline.

Revision and exam practise there after up to study leave.