

Year 9 Learning Journey



Comparison of hand made components v CAD/CAM



Materials to construct a clock and why we use them

Clock Evaluation

End

Clock Production

Assembly of clock using permanent and temporary fixings

How could a product be marketed and advertised.



Development of clock face design using CAD

Research into existing clock design

Scoring a product using a range of criteria



Clock Design

Ballista Competition

Accepting failure or success

Design and development of clock housing, using stock mechanism



Accurate measurements, finding angles, symmetry

Ballista Production

Joining techniques, use of jigs

Understanding a brief, prioritising, focussing on the goal



Start

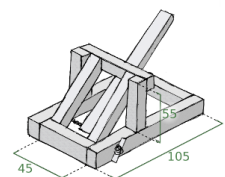
Team Challenge

Design & Development

Production planning, selecting materials

Assigning roles, dividing tasks, teamwork

Generating ideas, selecting ideas, combining ideas,



Teachers notes..... The work is planned in eight week blocks which are delivered over the academic year. Each block develops knowledge (materials, structures, environment) and skills (hand tools, machinery, CAD/CAM) which will be reinforced throughout the year.

