

Bramhall High School

Resistant Materials D &T

A level Design Technology –Grade 6

BTEC

End of year
examinations

Other post 16 options – including Apprenticeships,
other A level subjects, other BTEC subjects, other
training, College.



YEAR
11

Consolidation and revision of learning



RM
Additional Skills

RM
3D Wood Project

RM
Plastic Based Project

YEAR
10

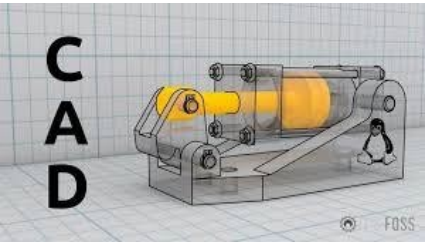


National Curriculum
Compliant

Select design theme Independent
creation using metals/woods and
plastics Problem Analysis mastery
Use of VLE for independent study
Design and working drawing creation mastery
Culmination of isometric and 3rd Angle
Orthographic
Use of CAD & CAM mastery – designing for
manufacture on laser cutter and plotting
machines
Independently selecting tools and equipment
Independently working from a design drawing
mastery
Independently modifying designs where
necessary mastery
Vector and bitmap understanding & mastery
Utilisation of a working drawing mastery
Experimentation & layout mastery
Creation of final layouts – apply criteria
Creation of final products
Independent creativity and originality
Evaluation against design criteria
Hand skills mastery classes



YEAR
9



YEAR
8

Resistant Materials
Understanding and analysing working drawings
Meeting set deadlines
Planning time effectively
Use of CAD
Independently selecting tools and equipment
Independently working from a design drawing
Independently modifying designs where necessary
Utilisation of a working drawing
Card Modelling
Independently hand drawing isometric projection
of the design mastery
Creation of final product
Creativity and originality

Resistant Materials
Target market and mood board
Desk Tidy Research & analysis – specification
Use of digital camera
Selection of images from the internet
Downloading from VLE
Conversion of simple images to bitmaps
Cad – 2d design
Editing – 2d design
Size and measurement – 2 d design
Use of CAD & CAM
Use of hand tools and machines
Vector and bitmap awareness
Workshop basic safety
Downloading simple backgrounds
Simplistic experimentation with layout
Creation of final product

welcome

YEAR
7

