



Bramhall High School

Resistant Materials D &T

A level: [Grade 6+]
Design Technology, Architecture, 3D Design,
Game Design,
BTEC
Engineering, Graphic Design, Creative
Media, Photography
Other post 16 options – including
Apprenticeships, other A level subjects, other
BTEC subjects, other training, College.



End of year
examinations

Consolidation and revision of learning

YEAR

11



RM
Building skills Box
project

RM
Additional Skills-
research and modelling

RM
Lamp Project using a
range of materials

YEAR

10

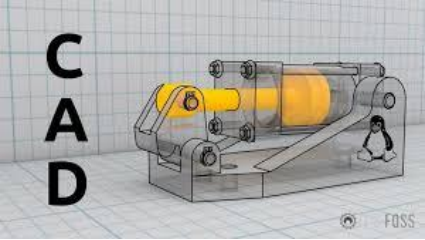


National Curriculum
Compliant

Select design theme
Independent creation of folders
Problem & design brief mastery
Target market mastery
House/Sweet Dispenser Research & analysis –
Specification mastery
Understanding of the properties and uses of
Metals and Timbers
Design and working drawing creation mastery
Use of CAD & CAM mastery
Independently selecting tools and equipment
mastery
Independently working safely in the workshop
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/machine skills mastery classes

YEAR

9



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
Independently hand drawing isometric projection
of the design mastery
Creation of final product
Creativity and originality

YEAR

8

Resistant Materials
Target market
Desk Tidy Research –Mood Board
Specification
Understanding of the properties and uses of the 3
categories of Timbers
Selection of images from the internet
Downloading from VLE
Conversion of simple images to bitmaps
Cad – 'Techsoft' 2d design
Editing – 'Techsoft' 2d design
Size and measurement – 'Techsoft' 2 d design
Use of CAD & CAM
Safe use of hand tools and machines
Vector and bitmap awareness
Workshop basic safety
Downloading simple backgrounds
Simplistic experimentation with layout
Creation of final product

YEAR

7

welcome

