ROAD MAP
TO

THE DESIGN & TECHNOLOGY CURRICULUM

YEAR 11

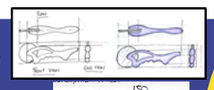
YEAR 10

YEAR 9

HOMEWORK
Ergonomics
Prototyping
Iterative design
Industry

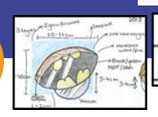
SPECIALISM
Timber
Graphics
CAD

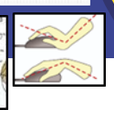
D – 3d design, isometric, multi view, logo
M – Model x 2, timber product, CAD Logo
E - Ideas, Models x 2, Product
K – Ergonomics, anthropometrics, Moral / Social issues, Cutting lists, Industrial production



CORE SKILLS: ITERATIVE DESIGN / ERGONOMICS

This DMA introduces students to primary and secondary research, 3D modelling and design, ergonomics, moral issues, planning for manufacture and industrial production
It aims to further develop design and modelling skills by producing a range of 2D and 3D models, to help develop and test their products for form and function.
Students then plan their final product and manufacture their product being able to select and use the appropriate materials and equipment for their design.
Students develop a logo and care label using cad





Assessment:
Research , Design
Modelling, Product

HOMEWORK PROJECT 2- 4 task 8 week extended learning project

HOMEWORK
PLASTIC /POLYMERS
COPY WRITE
SUSTAINABILITY
CAM

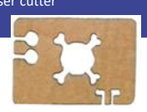
SPECIALISM
Plastic
CAM

D – Ideas, , specification, packaging
M – Model x 2, cam product, cad package
E - Ideas, Models x 2, Product
K – Materials, Polymers, Sustainability, CAM, Copy write, Prototypes,

YEAR 8

CORE SKILLS: CAD / CAM SUSTAINABILITY

Students complete a DMA based on Polymers and CAM linked to the theme of Sustainability
This unit aims to introduce students to a range of materials, Sustainability, Iterative modelling and CAM specialist techniques and equipment
Students continue to develop their research skills to produce a range of 2D models to help develop, test and refine their ideas and enable them to select appropriate materials for their product
The final product is developed on CAD software and manufactured using a CAM laser cutter

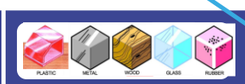


Assessment:
Specification, Design,
Modelling, Product

HOMEWORK
CUSTOMER PROFILE
MATERIALS CAD
TIMBER TOOLS AND EQUIPMENT

SPECIALISM
Timber
Graphics
CAD

D – Client profile, Ideas, Final design
M – Product, logo
E - Ideas, Product
K – Timber, BS. Tools Equipment, Tolerance, Health and Safety



YEAR 7

CORE SKILLS Timber / Graphics

Students complete a DMA based on Timber properties, workshop H+S , Tools and Equipment for cutting and shaping, stock forms, marking out ,accuracy, quality control and selecting and applying material finishes
The design element covers introduction to a brief, designing from own research. designing for clients, rendering, annotation, understanding technical drawings, British standards and tolerance
There is also a CAD element of the course where students develop their ideas using specialist CAD Graphic software

Assessment: Brief analysis
Design Manufacture
(Quality, Accuracy, Independence, Creativity)

Take part in Transition day activities at AHS