KS3 Product Design Learning Journey

THE WINSFORD ACADEMY

Design Technology GCSE

ART or Photography GCSE

Evaluation and Feedback

OPTIONS

AP

Extension project- pop up musical greetings card

Systems approach to electronics and control

AP

AP

Ethics in design

Product **Safety standards**

6 R's

Research methods **– Primary and Secondary research**

Presenting information

Ergonomics and anthropometric data

Ferrous and Non ferrous metals annealing and doming

Year 9

AP

Applying finishes

Managing waste

Year 9– Designing and making in metal

Characteristics of natural woods and engineered boards

Accuracy and tolerance in marking out and manufacture

ACESS FM

Writing a design **Specification**

Design as a **Moral choice**

Levels of Production

Renewable materials and managed resources

Fixtures, fittings and joining methods

AP

AP

Designing as a commercial practice

CoSHH and PPE

Year 8 Designing and making in renewable materials

Year 8

Basic electronic circuits

AP

CAD/ CAM

Shaping using heat

adhesives

The **iterative** design process

Customer, Client, Consumer

Bio morphic shapes and **Biomimicry** in design

Health and Safety – workshop rules

Tools and Equipment – identification and use

Materials- properties and manufacturing process's

Recycling symbols

Polymers – Thermo forming/ thermo setting

AP

AP

Target Market/ user needs

Design strategies

Safe working practice
Shaping and Wasting materials

Year 7 Designing and Making using a Polymer for a specified client

Baseline Test

Year 7

Materials and the environment
Ethical choices, sustainability and polymers

Assessment of knowledge and skills form KS 2

Welcome