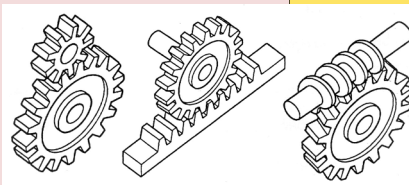


**Overview:**

Year 10 GCSE 3D Design — taught in specialist technical workshops and ICT suites. A variety of creative and practical tasks are undertaken to develop the skills required of a designer/maker. This includes design and make projects, focused practical tasks, learning about other artists/designers, drawing, model making, and making products in 3 Dimensions using a range of materials.

**GCSE 3D DESIGN****Year 10****Term 3:**

This term you will complete some Focused Practical Tasks where you build a range of mechanisms for example cam, gear and crank and slider.

A Design & Make Assignment will follow where you will use a range of materials to create an automata. An automata being a moving mechanical device. Your automata should show your ability to create an imaginative design with parts that move in an interesting way.

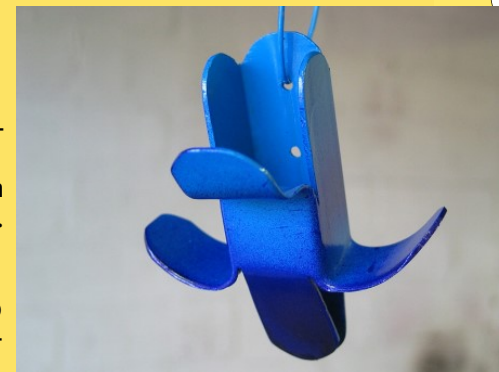
Homework will continue to cover many aspects of related topics.

**Term 1:**

Your year starts with a Design & Make Assignment — your task is to take a piece of reclaimed mild steel table leg, and imaginatively reshape it making a coat hook/hanger. Design investigation involves looking at existing designers and borrowing ideas from them before developing them into your own.

You will carry out lots of sketching, model making and more technical isometric drawing. You will learn how to cut, shape, heat up and bend the metal, thinking about the technical

properties of the material as you do so.



Homework will cover additional theory, and research into artist/designers and their work.

**Term 2:**

Focused Practical Tasks follow. You will look at different methods of heating and forming thermoplastics. You will also manufacture your own moulds and formers to form the heated plastics onto.

You will learn a range of methods to join timber to timber, some traditional and some experimental. You will also learn how to join mixed materials together successfully.



Homework will cover additional theory, and research into artist/designers and their work.