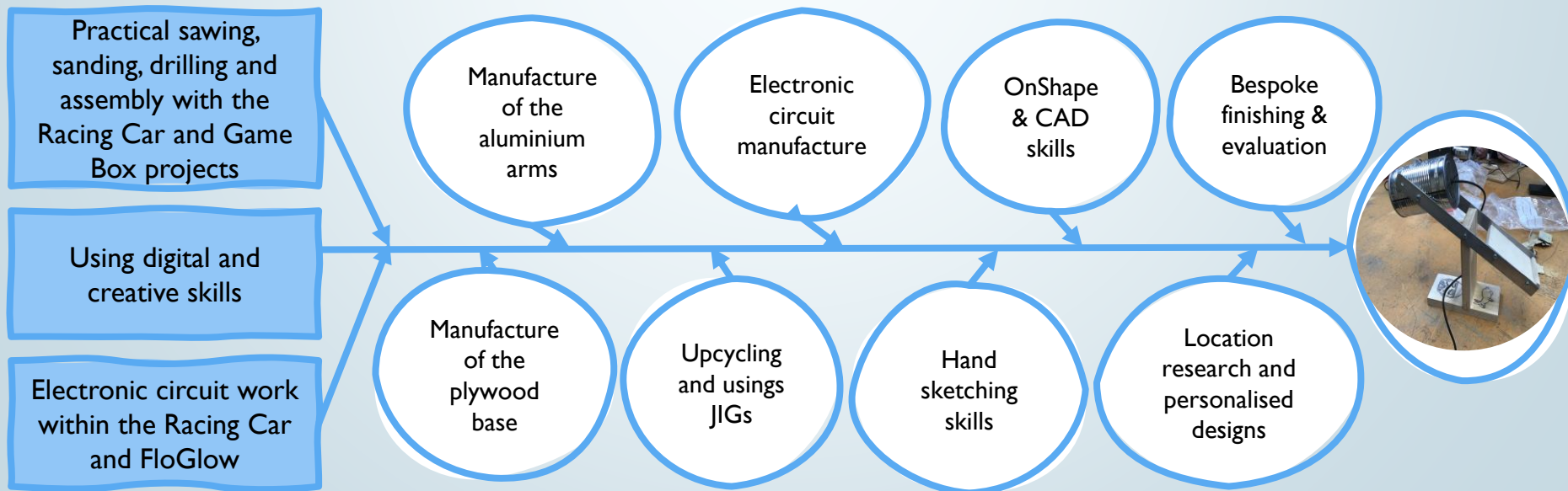


Project I; Balance Lamp - Why do we study Resistant Materials?

By studying Design and Technology we allow opportunities to develop skills and knowledge across a wide range of disciplines using creative, practical and computer aided tools. Technology is all around us and is driven by market pull, social factors and clients' needs, which are reflected in the reactive design and manufacture of prototypes and end products. Students must understand the properties of materials across the breadth of subject areas to problem solve and make informed decisions that influence design performance, practicality, aesthetics, suitability and cost. Students will learn to communicate ideas through hand sketching in 2D and 3D, using CAD to develop designs and CAM outputs within their workshop manufactured prototypes.

The balance lamp project focuses on expanding your practical skills developed in year 7&8 using more complex machinery and tools. This develops your material and process knowledge, supporting successful design decisions for your lamp and future projects.



Project 2; Passive Amplifier - Why do we study Resistant Materials?

By studying Design and Technology we allow opportunities to develop skills and knowledge across a wide range of disciplines using creative, practical and computer aided tools. Technology is all around us and is driven by market pull, social factors and clients' needs, which are reflected in the reactive design and manufacture of prototypes and end products. Students must understand the properties of materials across the breadth of subject areas to problem solve and make informed decisions that influence design performance, practicality, aesthetics, suitability and cost. Students will learn to communicate ideas through hand sketching in 2D and 3D, using CAD to develop designs and CAM outputs within their workshop manufactured prototypes.

The passive amplifier project uses the pupils practical skills and knowledge built through the balance lamp and previous projects to give them freedom within the design of a bespoke passive amplifier. They can manufacture using timber, polymers or CAM, or a mixture, providing them with opportunities to take design risks throughout the iterative process of sketching, modelling, testing, prototyping and manufacture.

