

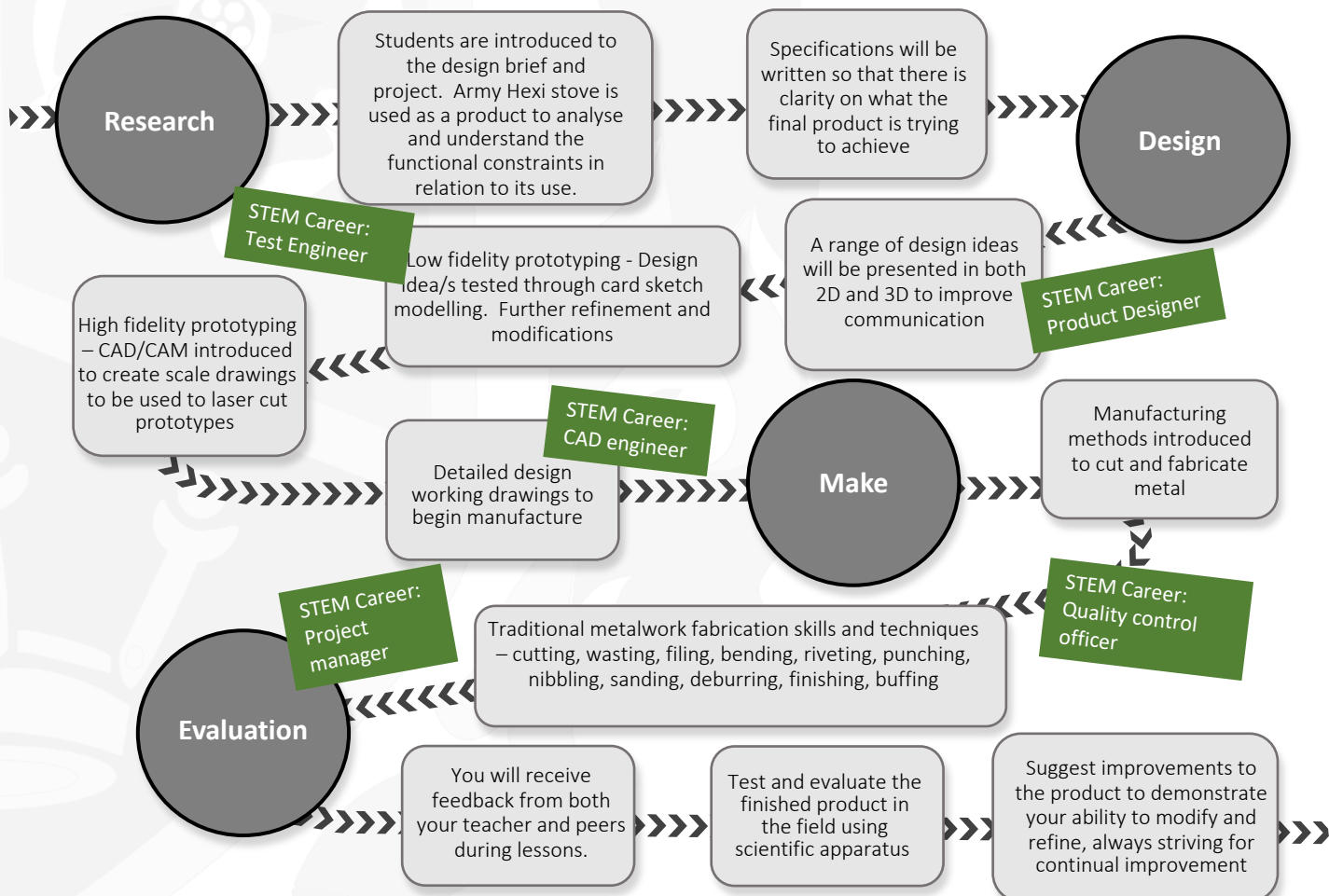
# LEARNING JOURNEY D&T



## Camping stove project

Year 12 Autumn Term (Mr Lawless)

The aim of this project is to enable students to create an innovative design solution within very real constraints. Students will test, evaluate and refine their ideas through sketch modelling and CAD prototype development. The final working camping stove prototypes are required to be lightweight, portable and able to function in outdoor conditions. The camping stoves will be designed and manufactured using a mixture of modern and traditional skills and techniques. Students will develop their practical skills in fabrication of metalwork and associated methods of manufacture. Through the iterative design process of designing and testing their prototypes the student will realise a fully functioning stove that could rival the British Army Hexi Stove. They will conduct field testing to demonstrate and test whether their stoves have been successful in meeting their design criteria in the real world.



**TUDOR HABITS:** You will be expected to be courageous and push yourself to create a challenging concept to develop and manufacture. You should develop and strengthen your designing and making skills through the positive self-regulation of your project

**VOCABULARY:** fitness for purpose, user-centred design, quantitative and qualitative testing, iteration, sketch modelling, low/high fidelity prototypes, processing and manipulating, cutting and wasting, forming and bending, properties and characteristics, quality control, risk assessment