Subject: Stage 2 Hybrid Powered Vehicles

### Course Content

#### Design Development

Product design (documentation and analysis): Students create a design brief and analyse their investigation and planning, based on the skills and activities outlined in the section 'The Design Process'. The investigation phase of the design process should also include an analysis of the impact on individuals, society, and/or the environment of technological practices related to the type of product that the student is designing.

#### Material / Process Investigation project:

Students produce a report detailing characteristics, material safety considerations and properties of materials or manufacturing techniques, with a recommendation for their project. The report format may be negotiated with the teacher and can be in the form of charts, annotated diagrams or pictures, oral, multimedia or written.

#### Practical project:

Students produce the product that they designed in their Folio task. They must share workshop facilities efficiently and safely, using correct techniques to perform a range of fabrication tasks. They keep a product record that includes evidence of:

- development of skills
- selection and use of appropriate components, specialised processes, and production techniques
- application of knowledge and understanding to create the product
- safe and accurate use of appropriate equipment and processes
- modification of the design brief as a result of technical problems that arise
- use of materials with appropriate characteristics and properties
- ongoing reflection on ideas and procedures.

#### Practical Skills Assessment:

Students produce a report detailing characteristics, material safety considerations and properties of materials or manufacturing

**Assessment**

Students are assessed on a folio of work covering 2 major assignments;

- Design Development\Evaluation Folio
- Materials / Process Research Assignment

There is also a practical project / process assessment connected to the combined folio.

A set of practical skills are assessed for correct and effective set up and operation to a prescribed standard.