



## Success Criteria

### Design and Manufacture

#### National 5

All the success criteria points listed below will have an impact on the potential success of pupils undertaking this course. Performance in all of these areas will be taken into consideration when teacher estimated grades are submitted.

#### **In order to be successful, the following skills must be demonstrated:**

- Analysing and evaluating a range of information.
- Carrying out research tasks to help influence design decisions.
- idea-generation techniques
- design factors
- graphic techniques.
- modelling techniques.
- planning techniques.
- evaluation techniques.
- manufacturing techniques (tools, materials, and processes).

#### **In order to be successful, the following knowledge and understanding must be demonstrated:**

- commercial manufacture.
- different materials (wood, metal and plastic).
- workshop tools and machinery.
- the impact of a range of design and manufacturing technologies on our environment and society.
- the design process.
- design factors.

#### **In order to be successful, the following must be achieved:**

- Completion of all homework tasks and home assignments.
- Completion of all classwork tasks and assignments.
- Appropriate levels of study at home to ensure understanding of all theory elements of the course.
- Appropriate preparation for all Formal Assessment(s).
- Successful completion of the Course Assessment Task (provided by the SQA) - submitted by the given deadline (53% of final grade).
- Participation in final SQA exam (47% of final grade).

**In order to be successful, the following topics will be studied:**

**Design:**

- Analysing a brief
- Generating ideas
- Use of modelling
- Use of graphics
- Developing ideas
- Planning for manufacture
- Evaluating Designs

**Manufacturing:**

- Measuring and marking out
- Using machine and hand tools
- Assembling components
- Finishing