

<b>Subject</b>	Product Design
<b>Term</b>	Rotation 1&2
<b>Duration (approx.)</b>	18 hours
<b>Module</b>	Calendar Blocks

## must be built upon/revisited and how will it be assessed?

Year 7 arrive with very little or no knowledge of designing and making products. Therefore the aim is to establish a baseline skills set that will set them up to be successful moving forward at KS3

## Spelling-Punctuation-Grammar

### How will you promote high standards within this module?

There are good opportunities to promote good standards of literacy through the use of extended writing. Pupils will be taught how to describe a target market, formulate a design brief and articulate their opinions about existing products through product analysis. The use of writing stems, exemplars, stimulus questions and breaking down the description of a target market into key questions to help structure extended writing are strategically used to support this.

### Link forward: where next for the learning?

In the year 8 unit pupils will be expected to build upon their designing and making skills through the development of more 3D and subsidiary drawings to explain design thinking. Greater opportunities and freedoms for creativity and the development of designing through modelling to try out ideas. Manufacturing skills will require greater technical ability and accuracy as the product is more challenging.

### Skills and concepts to be developed and assessed (linking to identified AOs)

AO1 Target Market identification, Written Briefs, isometric drawing, exploded views. Design drawing skills, colour rendering, quality annotation, isometric drawing, exploded drawing. Product modelling

AO2 Hand and machine processing skills, Computer Aided Design including Coordinate measurement, Shape generation and duplication, translation and duplication, Laser cutting, Designing and annotation, Simple product modelling, Adhesives and materials selection, types of finish and assembling.

AO3 Product Analysis, and joining investigation, Evaluation of own ideas through annotation.

Evaluation of suitable materials, finishes and adhesives.

### Factual knowledge to be taught and assessed (including subject specific vocabulary).

AO4 Materials properties, materials investigation, adhesives and joining investigation

### Formative Assessment/key piece of work prior to end of unit:

In this module we will be assessing the following:

AO1: Designing skills

AO2: Making skills

AO3: Evaluating

AO4: Technical knowledge

### Summative Assessment

Application of the KS3 assessment matrix for AO1,2,3& 4 to assess :

AO1 through quality and range of designing and product modelling

AO2 through quality of the final product.

AO3 through quality of annotation sharing design thinking, Product analysis

AO4 through application of knowledge of materials, adhesives, finish and making in final product and annotation.

Acquiring skills

Developing skills

Proficient skills

Excellent skills

### Building Retention: What prior learning