

## TECHNOLOGICAL ACTIVITIES AND APPLICATIONS

<b>SUBJECT</b>	<b>Practical Woodworking</b>
<b>PRINCIPAL TEACHER of DESIGN TECHNOLOGY</b>	<b>MR. M. YOUNG</b>
<b>PRINCIPAL TEACHER of TECHNOLOGY (Teaching &amp; Learning / Pastoral Care)</b>	<b>MR M. YOUNG</b>
<b>LEVEL OF STUDY</b>	<b>National 4 / 5</b>

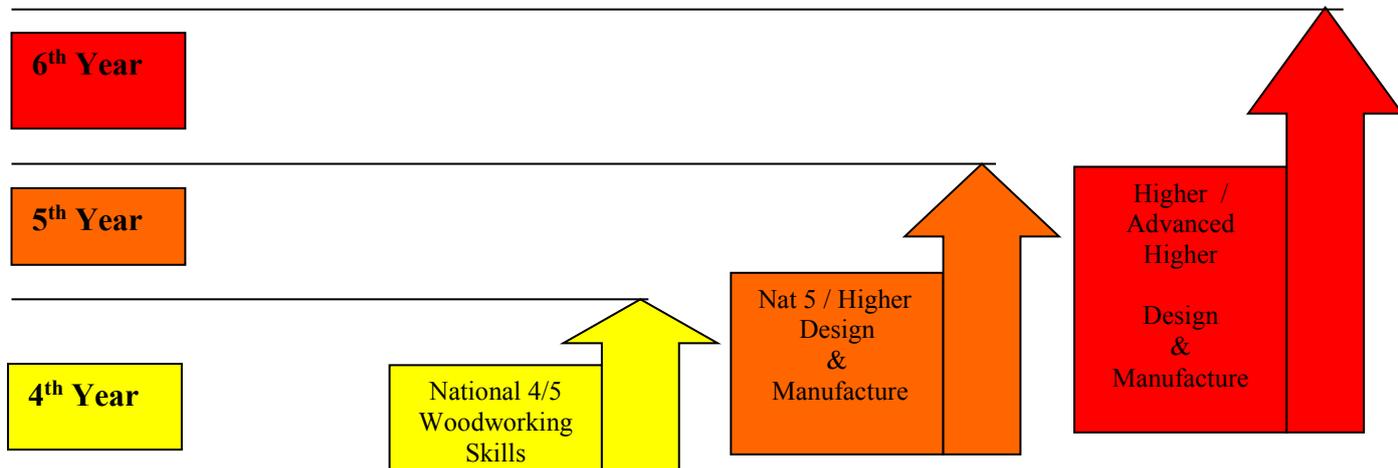
### RATIONALE

The Course is largely workshop-based, providing a broad introduction to practical woodworking.

The Course is distinct in value in that it allows learners to develop practical psychomotor skills (manual dexterity and control) in a specialist practical craft. It helps learners to develop safe working practices and to become proactive in matters of health and safety. It allows them to learn how to use a range of tools, equipment and materials correctly and provides skills that are complementary to other curriculum areas, particularly Design and Manufacture.

The Course is of broad educational benefit. It allows learners to develop skills in reading drawings and diagrams, measuring and marking out, as well as cutting, shaping and finishing materials. It allows them to learn how to work effectively alongside others in a shared workshop environment. The skills that learners acquire by successfully completing this Course will be valuable for learning, for life and for the world of work.

The Course encourages learners to become successful, responsible and creative in their use of technologies. It allows them to continue to acquire and develop the attributes and capabilities of the four capacities, including: creativity, flexibility and adaptability; enthusiasm and a willingness to learn; perseverance, independence and resilience; responsibility and reliability; and confidence and enterprise.



## **AIMS**

The Course is practical, exploratory and experiential in nature. It combines elements of practical woodworking techniques and standard practice with elements of creativity.

The Course allows learners to gain a range of practical metalworking / woodworking skills and to use a variety of tools, equipment and materials. It allows them to plan activities through to the completion of a finished product in metal / wood.

The Course will also give learners the opportunity to develop thinking, numeracy, and employability, enterprise and citizenship skills.

The aims of the Course are to enable learners to develop:

- skills in woodworking techniques
- skills in measuring out and marking various materials
- safe working practices in workshop environments
- practical creativity and problem-solving skills
- an understanding of sustainability issues in a practical context

## **COURSE CONTENT**

The course assessment is comprised of a practical assignment worth 70% and a written exam worth 30% of the available credit. In order to prepare for these assessments pupils will work through a range of topics including:

### **Woodworking:**

#### **i) Flat-frame Construction**

This topic helps learners develop skills in the use of woodworking tools and in making woodworking joints and assemblies commonly used in flat-frame joinery. Tasks will involve some complex features.

#### **ii) Carcase Construction (National 4/5)**

This topic helps learners develop skills in making woodworking joints and assemblies commonly used in carcase construction. Tasks will involve some complex features and may include working with manufactured board or with frames and panels.

#### **iii) Machining and Finishing (National 4/5)**

This topic helps learners develop skills in using common woodworking machinery processes such as drilling, sanding, turning and cutting. It also helps learners develop skills in a variety of woodworking surface preparation and finishing techniques.