

Curriculum Information Bramcote College

Year Group: 7

Subject: Technology - Product Design

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| Objectives/purpose | <p>To identify health and safety issues within the workshop.</p> <p>To develop knowledge of using various hand tools and machinery within their project.</p> <p>To understand the different characteristics of natural wood and manufactured board and should be able to tell the differences between them both.</p> <p>To use computer aided design to produce counters for their project.</p> <p>To use 2D design to draw the counters that are required.</p> <p>To identify the differences between thermo and thermosetting plastic through the use of vacuum forming.</p> |
| Autumn Term | <p>Students rotate around covering two strands of Technology within the year. Product design will be taught either September- February or February to July.</p> <p><i>Introduction to Design and Technology. Design and manufacture.</i></p> <p>Working safety rules in the workshop.</p> <p>Using and understanding hand tools, rule, square, bench hook, coping and tenon saw. Power tools, Fret saw, Pillar Drill, and belt sanding machine.</p> <p>Working with different materials, MDF and Plywood.</p> <p>Creating different finishes and effects using paint, and other coatings.</p> <p>Introduction to design sketching and drawing.</p> <p>Introduction to CAD/CAM design and manufacture</p> <p>Introduction to Electronics. Circuit boards and soldering.</p> <p>Introduction to packaging design and manufacture.</p> <p>Upcycling design and manufacture project.</p> |
| Spring Term | |
| Summer Term | |
| How is progress measured? | <p>Progress is measured from Technology EDSM Making levels. Students take a photo of practical work and identify different skills or techniques that they have learnt and evaluate what went well or not so well at the end of the lesson showing how they can improve.</p> |
| How is the subject externally examined? (KS4 and KS5) | |
| Extending Learning at home | <p>Homework consists of board game design, make a model of your board game, design and make instruction leaflet, to design and make packaging and promotional material.</p> |
| Support Available | <p>TA and technician support is available when required.</p> |
| Useful web addresses and book resources/revision guides | <p>www.technologystudent.com</p> <p>www.bbcbitesize.com</p> |

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Date reviewed: