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| **Minor Award Name** | **Woodcraft** |
| **Minor Award Code** | **4N3185** |
| **Level** | **4** |

**Suggested resources to support delivery:**

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| **Theme/Topic** | **Type** | **Relevance** | **Author/Source** | **Web Link** |
| Hand tools uses/ functions. | Web Page | Good short descriptive videos of what to look for when choosing traditional hand tools. Brief but relevant descriptions of hand tool uses and functions. | Joshua T. Farnsworth | <http://woodandshop.com/which-hand-tools-do-you-need-for-traditional-woodworking/> |
| Hand tools and power tools uses/ functions | Web Page | Comprehensive range of tools covered in very good detail. These include colourful animations and drawings. Matching worksheets are also available as a free PDG download. | V. Ryan | <http://www.technologystudent.com/equip1/equipex1.htm> |
| Power tools and machinery use | YouTube Channel | Very useful instructional videos on the band saw, jig saw, cordless drill and mitre saw. | Brittany Bailey | <https://www.youtube.com/user/PrettyHandyGirl/videos> |
| Materials Characteristics | PowerPoint Presentation | Very detailed breakdown of the difference between hardwoods and softwoods including useful comparison tables. Heavy on detail, though lacking in a bit of colour. | David and Sarah Newsham | [www.bisnet.or.id/vle/mod/resource/view.php?id=8235](http://www.bisnet.or.id/vle/mod/resource/view.php?id=8235) |
| Hardwoods, Softwoods and Manufactured Board | PowerPoint Presentation | Attractive and detailed PowerPoint on hardwood, softwood and manufactured board. The layout is very friendly and the information is detailed enough without being overly scientific. | The National Grid for Learning (Wales) | <https://www.google.ie/url?sa=t&rct=j&q=&esrc=s&source=web&cd=5&cad=rja&uact=8&ved=0ahUKEwj_r_zrh9LLAhWBJw8KHYEzBTsQFggzMAQ&url=http%3A%2F%2Fresources.hwb.wales.gov.uk%2FVTC%2Fngfl%2Fdandt%2Fcollected_resources%2Fresistant_materials%2Fstorage_eng%2FMaking%2F3.%2520Properties%2520function%2520Wood.ppt&usg=AFQjCNGZlDUdcyuM_ccQFcoosZxQIXMUlw&sig2=DXR8bzY9NXo5FiCtxnZTDQ&bvm=bv.117218890,d.ZWU> |
| Materials Characteristics and Uses | Website | Very useful website covering a broad range of materials, from hardwoods and softwoods, to plastics and manufactured board. The site gives sufficient information for this level and accompanies this info with nice pictures. | Mr K. Cooper | <http://www.mr-dt.com/materials/main.htm> |
| Finishes Characteristics and Uses | Article | Excellent detailed article with a very useful comparison table at the end. The article covers a wide variety of finishes, also clearly outlining each finishes pros and cons. | Wood Solutions | <http://www.woodsolutions.com.au/Articles/Resources/Timber-Finishes-Interior> |
| Finishes Characteristics and Uses | Video | An easy to understand, quick video outlining the basics of wood finishing. Detail is limited, however it is an excellent introductory video and very useful for students when researching a finish for their projects. | Fine Woodworking | <https://www.youtube.com/watch?v=4Cqn6iX1MLg> |
| Applying a Finish | Poster/ Article | Detailed and straight forward guide to finishing. This is a very handy hand out for the classroom and/or and informative guide for students to follow. The poster has both text, and a clear flow chart to follow. | Michael Dresdner | <http://www.google.ie/url?sa=t&rct=j&q=&esrc=s&source=web&cd=1&cad=rja&uact=8&ved=0ahUKEwjh8rOTx9TLAhXIZg8KHSAaBqMQFggbMAA&url=http%3A%2F%2Fobraryforumassets.s3.amazonaws.com%2F376f0f175276a319aa9c607f4f8fc4c5f6c95de1513.pdf&usg=AFQjCNHnXlDfEscv4Vx755nyyyvFAVFVow> |
| Woodworking Joints | Article | A very useful article outlining 11 different joints and the theory behind them. The article has nice drawings/ pictures of each joint. | Woodworkers Guild of America/ Jim McCleary | <http://www.wwgoa.com/article/woodworking-joints-which-ones-should-you-use/> |
| Woodwork Joints | Video | Excellent video showing how to make accurate halving, mortice and tenon, mitre and finger joints. Although many of the processes use heavy machinery such as the table saw, the same principles can be applied using hand tools or lighter machinery alternatives for more capable students. | Laney Shaughnessy | <https://www.youtube.com/watch?v=zqXLYe783qw> |
| Woodwork Joints | PowerPoint Presentation | Excellent presentation detailing a comprehensive list of joints. The presentation has excellent supporting photos and plenty of information on joint uses, as well as advantages and disadvantages. | Gerard Ritchie | <https://learning.mccarthy.nsw.edu.au/pluginfile.php/8411/mod_folder/content/0/WOOD%20THEORY%20(PP)/TECH%20WOOD%20Topic%203.ppt?forcedownload=1> |
| Orthographic Projection/ Drawing | Web Page | Good introduction to orthographic projection including 1st angle and 3rd angle projection. Covers basics. | Eoin Mansfield | <http://www.practicalstudent.com/subjects/tg/projectionsystems/orthoprojection.shtml> |
| Orthographic Projection | Slideshow | Very good presentation outlining basic orthographic projection. | Presario Nyioq | <http://www.slideshare.net/nyioq/orthographic-projection> |
| Technical Graphics | PowerPoint Presentation | Excellent presentation on Technical Graphics. It shows plenty of worked examples in detail. | Steven Colgan | <http://www.t4.ie/Resources_JC/Technical%20Graphics/TG%20Introduction%20Full%20Programme.ppt> |
| Sketching and Rendering Techniques and Design | PDF File/ Booklet | A comprehensive guide to sketching techniques for communicating design ideas. Essential for the planning and design section of the programme. The file is mainly geared towards leaving certificate technology, but the techniques remain the relevant. | T4 | <https://www.studyclix.ie/Content/Uploads/c5ef47e9-c1bf-4c89-8498-25b0c9d83dd0.pdf> |
| Tool Maintenance | Video | A practical video showing how to sharpen a chisel from grinder to stone. The video is easy to understand, clearly narrated and has excellent information for sharpening chisels. | Matthew Cremona | <https://www.youtube.com/watch?v=3QZtNnI7bA0> |
| Workshop and Tool Safety | Web Page | An excellent webpage with lots of resources for teachers of technology subjects which are free to download. These include safety posters, signage and PowerPoint presentations. The presentations include identifying safety signage meanings and hazards in the workshop. | T4 | <http://www.t4.ie/topics_health.htm> |
| Safety Signage | PDF File/ Booklet | A useful and literacy friendly booklet, the start of which deals with safety signage, and their meanings. Free to print in full colour. | National Adult Literacy Agency | <https://www.nala.ie/sites/default/files/publications/Steps%20to%20safety%20-%20module%20one%20-%20safety%20signs_1.pdf> |
| Power Tool Safety | PDF File | A list of generic rules for the safe use of all power tools. The rules are not specific to any one tool, but cover all the checks a user should adhere to before using any power tool. | Power Tool Institute | <http://www.powertoolinstitute.com/pti_pdfs/PTI_Teachers_Power_Tool_Safety_Rules.pdf> |
| Risk Assessment | Website | An excellent, easy to use and free resource for risk assessment and creating safety statements. | Health and Safety Authority | [www.besmart.ie](http://www.besmart.ie) |
| All topics | Book | Junior Certificate Materials Technology (Wood) book covering all topics relevant to Woodcraft. | Michael Cross | <http://www.edcodigital.ie/books/wood-materials-4th-edition/> |
| All Topics | Book | Leaving Certificate Technology book covering materials, design, and drawing. | Gráinne Enright | <http://www.goldenkey.ie/LC_tech.html> |
| Drawing and Design | Book | Leaving Certificate Design and Communication Graphics book, covering drawing techniques and design. | Joseph Terry | <https://www.folens.ie/books/design-and-communication-graphics> |
| All topics | Website | Clear and well laid out website covering all topics on the course. | Woodwork Basics | <http://www.woodworkbasics.com/> |
| All topics | Website | A vast, excellent website including ‘how to’ videos and articles on everything from design to applying a finish. | The Taunton Press, Inc. | <http://www.finewoodworking.com/> |
| All topics | Youtube Channel | A series of instructional videos covering a huge variety of woodworking related topics. Expertly shot and presented. | Marc Spagnuolo | <https://www.youtube.com/user/TheWoodWhisperer> |
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**Useful Organisations:**

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| **Name** | **Contact Information** |
| National Council for Curriculum and Assessment (NCCA) | [www.ncca.ie](http://www.ncca.ie) |
| Quality and Qualifications Ireland (QQI) | <http://www.qqi.ie/> |
| Further Education Support Service (FESS) | [www.fess.ie](http://www.fess.ie) |
| Health and Safety Authority | [www.hsa.ie](http://www.hsa.ie) |
| Techno Teachers Association | <http://www.technoteachers.ie/> |
| T4 | [www.t4.ie](http://www.t4.ie) |
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| **MOOCs (Massive Online Open Courses)** | |
| Free access to online courses  Search regularly for new courses and new start dates | https://www.mooc-list.com/ |