Unit 108: Wood occupations

# Worksheet 6: Types of materials (learner)

1. Using supplied offcuts of different types of board stock and using controlled tests, complete the table below. Please ensure that offcut strips are the same length, width and thickness (i.e. 600mm x 28mm x 18mm). Grade each type of board from 1 to 10: 1 being weak and 10 being strong. Torsional strength can be measured using a vice at one end and G clamp at the other and twisting. Compression can be tested using blocks in a vice. Bending can be tested by clamping over a variety of radiused jigs. You can decide the grading criteria.

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| --- | --- | --- | --- |
| **Type of board stock:** | **Strength against torsional (twisting) pressure** | **Strength against compression** | **Strength against bending** |
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Offcuts of different types of board stock can also be soaked overnight in water to provide an extension to this test.

1. Name four types of board stock, listing their qualities and limitations:

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| --- | --- | --- |
| **Type of board stock:** | **Qualities:** | **Limitations:** |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

1. Name four types of hardwood, listing their qualities and limitations:

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| --- | --- | --- |
| **Type of hardwood:** | **Qualities:** | **Limitations:** |
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|  |  |  |
|  |  |  |

1. Name four types of softwood, listing their qualities and limitations:

|  |  |  |
| --- | --- | --- |
| **Type of softwood:** | **Qualities:** | **Limitations:** |
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