

NAME: \_\_\_\_\_ DATE: \_\_\_\_\_

Wood Technology: Hand Tools and Power Tools

# Wood Technology

## Hand Tools and Power Tools

It is not necessary to carry out all the activities contained in this unit.

Please see *Teachers' Notes* for explanations, additional activities, and tips and suggestions.

<b>Theme</b>	<b>Hand Tools and Power Tools</b>
<b>Levels</b>	<b>A1 – B1</b>
<b>Language focus</b>	Key vocabulary, word identification, sentence structure, extracting information from text, writing text, grammar.
<b>Learning focus</b>	Using Wood Technology textbooks and accessing curriculum content and learning activities.
<b>Activity types</b>	Matching, word identification, structuring sentences and text, cloze, multiple choice, reading comprehension, categorising vocabulary, recording learning, developing a learning resource.
<b>Acknowledgement</b>	<b>Extracts from <i>Wood Technology for the Junior Certificate</i>. <i>Editor: Bill Gaughran.</i> Gill &amp; Macmillan.</b>  We gratefully acknowledge Gill & Macmillan for the right to reproduce text in some of these activities.
<b>Learning Record</b>	A copy of the Learning Record should be distributed to each student.  Students should: <ol style="list-style-type: none"><li>1. Write the subject and topic on the record.</li><li>2. Tick off/date the different statements as they complete activities.</li><li>3. Keep the record in their files along with the work produced for this unit.</li><li>4. Use this material to support mainstream subject learning.</li></ol>

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### Making the best use of these units

- **At the beginning of the class**, make sure that students understand **what** they are doing and **why**. *'We are doing the exercise on page (12) to help you to remember key words / to help your writing skills / to help with grammar'* etc.
- You can create your **personal teaching resource** by printing these units in full and filing them by subject in a large ring binder.
- **Encourage students to:**
  - Bring the relevant **subject textbooks** to language support class. It does not matter if they have different textbooks as the activities in these units refer to vocabulary and other items that will be found in all subject textbooks. These units are based on curriculum materials.
  - Take some **responsibility for their own learning** programmes by:



Developing a **personal dictionary** for different subjects, topics, and other categories of language, on an on-going basis. This prompt is a reminder.

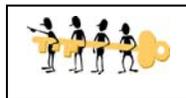


Recording what they have learnt on the **Learning Record**, which should be distributed at the start of each unit.



Keeping their own **files** with good examples of the work produced in language support for different subjects and topics. This file will be an invaluable **learning resource** in supporting mainstream learning.

- Don't forget that many of the activities in these units are suitable as **homework** tasks, for **self-study**, or for use in the **subject classroom** with the agreement of the subject teacher.



Indicates that answers may be found at the end of the unit.

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## Wood Technology: Hand Tools and Power Tools

### Keywords

The list of keywords for this unit is as follows:

#### Nouns

angle  
appliance  
beech  
belt  
bench  
bevil  
bit  
blade  
booth  
chisel  
claw  
compressor  
cross  
curves  
cutter  
drill  
edge  
file  
gauge  
goggles  
grain  
gun  
hammer  
handle  
head  
health  
hole  
hook  
joints  
knife  
machine  
machinery  
mallet  
minas  
mortise  
nail  
nut  
oilstone  
pincers  
plane  
plug  
power

router  
safety  
sander  
saw  
screwdriver  
sketch  
socket  
square  
steel  
stock  
surface  
teeth  
thumb  
timber  
tip  
tools  
vice  
workshop

#### Verbs

bore  
cut  
drill  
fit  
grind  
list  
mortise  
mount  
pare  
plane  
power  
remove  
rotate  
saw  
sharpen  
spray  
secure

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## Wood Technology: Hand Tools and Power Tools

### Vocabulary file 1

This activity may be done in language support class or in the mainstream subject classroom.

<b>Word</b>	<b>Meaning</b>	<b>Word in my language</b>
tool		
drill		
sander		
plug		
appliance		
socket		



Get your teacher to check this and then file it in your folder so you can use it in the future.

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## Wood Technology: Hand Tools and Power Tools

### Vocabulary file 2

This activity may be done in language support class or in the mainstream subject classroom.

<b>Word</b>	<b>Meaning</b>	<b>Word in my language</b>
blade		
screw		
pincer		
vice		
to spray		
to rotate		



Get your teacher to check this and then file it in your folder so you can use it in the future.

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## Wood Technology: Hand Tools and Power Tools

**Level:** all  
**Type of activity:** whole class

**Focus:** vocabulary, spelling,  
dictionary, writing  
**Suggested time:** 10 minutes

### Activating students' existing knowledge

Use a spidergram to activate students' ideas and knowledge on the key points in this chapter. See **Teachers' Notes** for suggestions.

Possible key terms for the spidergram:

### Tools and Equipment

- Invite students to provide key words in their own languages.
- Encourage dictionary use.
- Encourage students to organise their vocabulary into relevant categories (e.g. meaning, nouns, keywords, verbs etc.).



Students should record vocabulary and terms from the spidergram in their personal dictionaries.

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## Wood Technology: Hand Tools and Power Tools

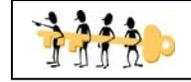
**Level:** A1

**Type of activity:** pairs or individual

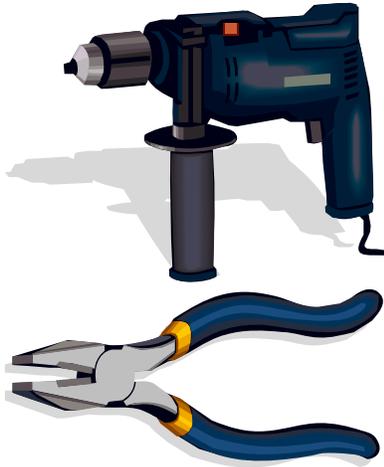
**Focus:** vocabulary, spelling, dictionary

**Suggested time:** 30 minutes

### Working with words



1. Which of these is a hand tool, and which is a power tool?



2. Find these words in your textbook.

Write your own explanation for these words. Then write the word in your own language. Use your dictionary if necessary.

Word	Page in textbook	Explanation	In my language
tool			
cutting			
shaping			
boring			



Check that these key words are in your personal dictionary.

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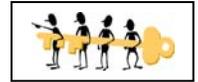
## Wood Technology: Hand Tools and Power Tools

Level: A1

Type of activity: pairs or individual

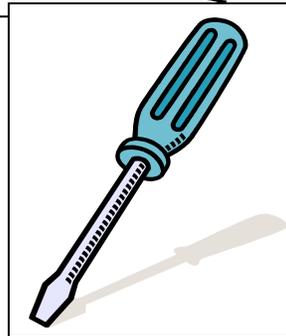
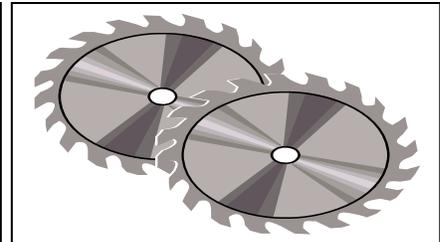
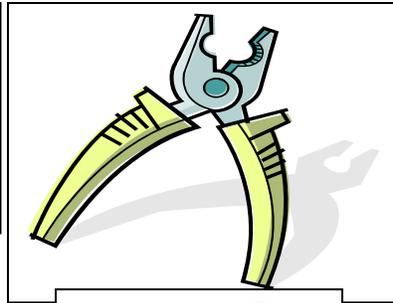
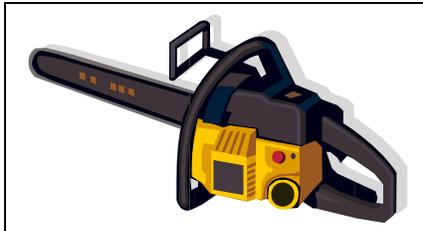
Focus: vocabulary, basic sentence structure

Suggested time: 30 minutes



### Pictures

1. Match the tools with the names



drill      chainsaw      circular saws

hammer                  pincers                  screwdriver

2. Go to your textbook and find pictures of the following:

Picture of	Page in textbook
Measuring tape	
Callipers	
Saw	
Sander	
Planer	

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Level: A1/A2

Type of activity: pairs or individual

Focus: word identification, vocabulary

Suggested time: 20 minutes



### Odd One Out

Circle the word which does not fit with the other words in each line.

Example: *apple*    *orange*    *banana*    *taxi*

1. pincers                  nails                  timber                  go

2. saw                          chicken                  thumb                  wood

3. potatoes                  straight                  smooth                  curved

4. pencil                          marking knife                  try-square                  music

5. mortising                  chisel                  car                  gauge

6. drill                          cat                  power                  portable

7. booth                          spray                  gun                  guitar

8. phone                          sander                  rotating                  orbital

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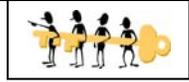
## Wood Technology: Hand Tools and Power Tools

Level: A2 / B1

Type of activity: individual

Focus: key vocabulary, writing  
descriptive text

Suggested time: 20 minutes



### Wood Technology Keywords

1. Fill in the missing letters of the keywords listed below.

On the line beside each word, write whether the word is a noun, an adjective or a verb.

smo\_\_hing \_\_\_\_\_

ma\_\_ri\_l \_\_\_\_\_

ro\_\_er \_\_\_\_\_

oil\_\_one \_\_\_\_\_

ma\_\_in\_ry \_\_\_\_\_

spr\_\_ing \_\_\_\_\_

ap\_\_ia\_ce \_\_\_\_\_

ava\_\_a\_le \_\_\_\_\_

2. Write as many words as possible related to **Hand Tools and Power Tools**.

You have 3 minutes!

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## Wood Technology: Hand Tools and Power Tools

Level: A1 / A2

Type of activity: pairs or individual

Focus: key vocabulary, pronunciation, spelling

Suggested time: 20 minutes



### Unscramble the letters

1. This is used to make holes RLLID

**Answer** \_\_\_\_\_

2. Makes the surface of wood smooth SREADN

**Answer** \_\_\_\_\_

3. These are used to hold different pieces of wood together CWSSER

**Answer** \_\_\_\_\_

4. When you prepare a tool to be used ARHINGSPEN

**Answer** \_\_\_\_\_

### Solve the secret code

English	A	E	G	L	O	R	S	T
Code	B	X	Y	I	G	Q	W	D

ex: IGWX = LOSE

**DGGIW BQX YQXBD =**

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## Wood Technology: Hand Tools and Power Tools

**Level:** A2 / B1

**Type of activity:** pairs or individual

**Focus:** reading comprehension, extracting meaning from text, vocabulary

**Suggested time:** 30 minutes



### Completing sentences

Fill in the blanks in these sentences. Use words from the Word Box below.

#### MARKING-OUT TOOLS

This group is sometimes referred to as geometrical tools, and includes \_\_\_\_\_ used to measure distances and angles, to test the straightness of edges, and to mark circles and \_\_\_\_\_.

#### PERCUSSION OR IMPELLING TOOLS

Hammers, mallets and \_\_\_\_\_ are used to assemble joints or to drive nails or screws into the material. Some percussion tools also have a cutting or chopping action, such as the axe.

#### SAWS

Saws may be used to reduce the size of large sections of \_\_\_\_\_ or to work very fine joints. There are many saw \_\_\_\_\_, and one's choice will depend on the material being cut and the profile of the cut, i.e. whether the cut is straight or curved.

*Word Box:*

tools	curves	types	screwdrivers	material
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## Wood Technology: Hand Tools and Power Tools

**Level:** A2 / B1  
**Type of activity:** individual

**Focus:** key vocabulary, topic information, reading comprehension, multiple choice  
**Suggested time:** 40 minutes

### Multiple choice



*Read the text below and choose the best answers.*

*Text:* THE NARROW BANDSAW

This can be used to cut curved or intricately shaped items from timber and manufactured boards as well as from light metals and plastics. It is important to ensure that the correct type and size of blade is fitted to suit the operation in hand.

A number of standard jigs are available and many more can be readily constructed to facilitate the manufacture of large numbers of curved items.

The saw blade is a continuous band which passes over two large wheels, one of which is driven by a motor. Narrow blades about 3 mm wide are available and are used when cutting small radius curves in light material. Generally speaking, the size of blade used will depend on the thickness of the material and the radii of the curves being cut.

To prevent the blade from being forced off the wheels while cutting, its back edge is supported by a hardened steel disc which is mounted on ball-bearings. As the back of the moving blade contacts the disc, the disc rotates and friction is reduced.

1. What can the narrow bandsaw be used to cut?
  - a) nothing
  - b) curved items
  - c) steel
  - d) paper
2. What must be fitted to the bandsaw for each operation?
  - a) timber
  - b) plastic
  - c) the correct blade
  - d) light metals
3. What drives one of the wheels in the bandsaw?
  - a) your hands
  - b) narrow blades
  - c) batteries
  - d) a motor
4. Should the blade be forced off the wheels while cutting?
  - a) Yes
  - b) No
5. Is friction reduced by the rotating disc?
  - a) Yes
  - b) No

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## Wood Technology: Hand Tools and Power Tools

**Level:** all  
**Type of activity:** individual

**Focus:** used for / made from,  
yes/no questions  
**Suggested time:** 30 minutes

### Grammar

1. Select 5 tools from the list below. If you are not sure what they are, use the pictures in your textbook to help you.

the rule, the pencil, the try-square, the mortise gauge, the handsaw, the chisel, the hammer, the mallet, the pincers, the brace, the plane, the file, the sander, the drill, the circular saw, the planer, the router

2. Write two sentences about each of the 5 tools.

- It is used for (+ing)
- It is made from/of

Example: *The rule is used for measuring distances accurately.*  
*The rule is made from stainless steel or boxwood*



3. Yes/No Quiz

- One student thinks of a tool, but doesn't say which one.
- The rest of the class ask yes/no questions until the item is guessed.
- Another student takes a turn.

**Remember the student can only answer YES or NO.**

Sample questions:

Is it made of/...? Is it used for...? Is it round...?  
Is it square....? Is it dangerous...? Is it (a hammer)?

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## Wood Technology: Hand Tools and Power Tools

### Alphaboxes

Using your textbook, find **one** word beginning with each of the letters of the alphabet. Write the word in the relevant box. You could also write the word in your own language.

a	b	c
d	e	f
g	h	i
j	k	l
m	n	o
p	q	r
s	t	u
v	w	xyz

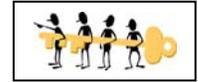
Do you understand all these words?



Get your teacher to check this, then file it in your folder so you can use it in the future.

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Word search

Find the words from the list below. When you have found all the words, write each word in your own language.

C F  
X H  
S A W S  
H E A D  
A T E E T H  
R I V E T S

Q Y F M A T E R I A L C F M O R T I S E  
C H I S E L L B L A D E S P I N C E R S  
G N O F W O O D W O R K I N G I O F  
M F Y O I L S T O N E X W O O D  
K H A C K S A W M A L L E T  
B L A D E H A M M E R S  
Y C H I S E L S G A U G E O  
J O I S C R E W D R I V E R  
D T F M I L L I M E T R E L Q R  
M S C R E W S H A N D L E R  
G T I M B E R L T E N O N W  
B E N C H U H F E Y  
N I P N E D G E  
R Q Z V

BENCH	GAUGE	MATERIAL	SAWS
BLADE	HACKSAW	MILLIMETRE	SCREWDRIVER
BLADES	HAMMERS	MORTISE	SCREWS
CHISEL	HANDLE	OILSTONE	TEETH
CHISELS	HEAD	PINCERS	TENON
EDGE	MALLET	RIVETS	TIMBER
			WOOD
			WOODWORKING

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## Wood Technology: Hand Tools and Power Tools

### Play Snap

Make Snap cards with 2 sets of the same keywords. See *Notes for teachers* for ideas about how to use the cards.



<b>describe</b>	<b>describe</b>
<b>woodworking</b>	<b>woodworking</b>
<b>drill</b>	<b>drill</b>

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<b>sander</b>	<b>sander</b>
<b>machinery</b>	<b>machinery</b>
<b>portable</b>	<b>portable</b>

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<b>workshop</b>	<b>workshop</b>
<b>explain</b>	<b>explain</b>
<b>available</b>	<b>available</b>

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**goggles**

**goggles**

**rotates**

**rotates**

**timber**

**timber**

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## Wood Technology: Hand Tools and Power Tools

### Answer key

#### Working with words, page 7



a power tool

a hand tool

#### Pictures, page 8

The tools appear in this order (left to right, row 1)

chainsaw, pincers, circular saws

Row 2

hammer, screwdriver, drill

#### Odd one out, page 9

1. go, 2. chicken, 3. potatoes, 4. music, 5. car, 6. cat, 7. guitar, 8. phone

#### Keywords, page 10

Smoothing (verb), material (noun), router (noun), oilstone (noun), machinery (noun), spraying (verb), appliance (noun), available (adjective)

#### Unscramble the letters, page 11

Drill, sander, screws, sharpening

Secret Code: tools are great

#### Completing Sentences, page 12

##### MARKING-OUT TOOLS

This group is sometimes referred to as geometrical tools, and includes **tools** used to measure distances and angles, to test the straightness of edges, and to mark circles and **curves**.

##### PERCUSSION OR IMPELLING TOOLS

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## Wood Technology: Hand Tools and Power Tools

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### Multiple Choice, page 13

1. b, 2. c, 3. d, 4. b, 5. a

### Word Search, page 16

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                C F
                X H
                S A W S
                H E A D
                A T E E T H
                R I V E T S
Q Y F M A T E R I A L C F M O R T I S E
C H I S E L L B L A D E S P I N C E R S
  G N O F W O O D W O R K I N G I O F
    M F Y O I L S T O N E X W O O D
      K H A C K S A W M A L L E T
        B L A D E H A M M E R S
          Y C H I S E L S G A U G E O
            J O I S C R E W D R I V E R
              D T F M I L L I M E T R E L Q R
                M S C R E W S           H A N D L E R
                  G T I M B E R             L T E N O N W
                    B E N C H                 U H F E Y
                      N I P N                   E D G E
                        R Q                       Z V
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