NAME:	DATE:
Wood T	ochnology: Hand Tools and Dower 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.

Theme	Hand Tools and Pow	er Tools
All students:	Keywords	3
	Vocabulary File	4-5
Activities that are suitable for Learning Support, Language	Activating Students' Existing Knowledge	6
Support and the Mainstream Subject Class include:	Completing Sentences	12
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Language support:	Picture Sentences	8
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Language Support include:	Wood Technology Keywords	10
	Unscramble the letters	11
	Alphaboxes	15
	Play Snap	17-20
Language support:	Grammar points	14
Additional activities for Language Support:		
Levels for Language	Δ1 – R1 The language level of e	ach activity is
Support	A1 – B1 The language level of each activity is indicated in an information box.	
Learning focus	Using Wood Technology textbooks and accessing curriculum content and learning activities.	
Acknowledgement	The English Language Support Programme acknowledges the permission of Gill and Macmillan to reproduce excerpts from Wood Technology for the Junior Certificate. Edited by Bill Gaughran.	

Note: The categorisation of activities is indicative only and should not prevent teachers from using any activities that are considered suitable for a particular group of students.

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Making the best use of these units

Learning Record

A copy of the Learning Record should be distributed to each learning support and language support student.

Students should:

- 1. Write the subject and topic on the record.
- 2. Tick off/date the different statements as they complete activities.
- 3. Keep the record in their files along with the work produced for this unit.
- 4. Use this material to support mainstream subject learning.

Introduction of a topic or activity should ensure that students understand **what** they are doing and **why**. Many students will have some difficulty in understanding both the language in the activity and the instructions/purpose for carrying out the activity.

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 learning/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 for different subjects and topics. This file will be an invaluable **learning resource** in supporting mainstream learning.



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

Don't forget that many of the activities in these units are also suitable as **homework** tasks or for **self-study**.

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Keywords

The list of keywords for this unit is as follows:

Nounsplaneangleplugappliancepowerbeechrouterbeltsafetybenchsanderbevilsaw

bit screwdriver blade sketch booth socket chisel square steel claw compressor stock surface cross curves teeth cutter thumb drill timber edge tip file tools vice gauge workshop goggles

grain

gun **Verbs** bore hammer handle cut head drill health fit hole grind list hook joints mortise knife mount machine pare machinery plane mallet power minas remove mortise rotate nail saw nut sharpen oilstone spray pincers secure

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Vocabulary file 1

Word	Meaning	Note or example*
tool		
drill		
sander		
plug		
appliance		
socket		

^{*} You may wish to write a sentence or phrase, make a note of the page in your textbook where this word appears or, if English is not your first language, provide a translation into your language.



Get your teacher to check this and then file it in your folder.

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Vocabulary file 2

Word	Meaning	Note or example
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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Troota roomiology. Hand room

Language Level: all

Type of activity: whole class 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 newcomer students to provide key words in their own languages.
- Encourage dictionary use.
- Encourage all students to organise their vocabulary into relevant categories (e.g. meaning, nouns, keywords, verbs etc.).

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

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Language Level: A1

Type of activity: pairs or individual Suggested time: 30 minutes



Working with words

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



Hand tool

Power tool

2. Find these words in your textbook.

Write your own explanation for these words. Then write a note or example to help you remember. Use your dictionary if necessary.

Word	Page in textbook	Explanation	Note or example
tool			
cutting			
shaping			
boring			



Check that these key words are in your personal dictionary.

NAME: _____ DAT

Wood Technology: Hand Tools and Power Tools

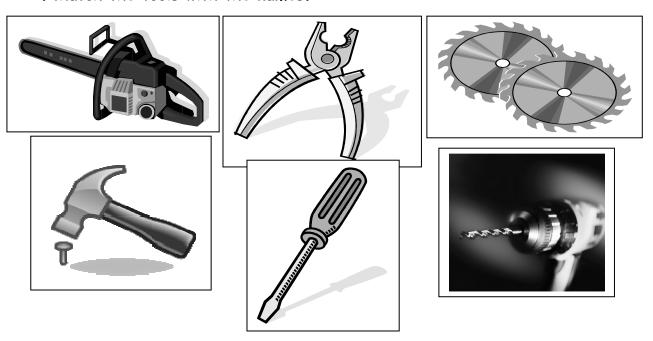
Language Level: A1

Type of activity: pairs or individual Suggested time: 30 minutes



Pictures

1. Match the tools with the names.



<u>drill</u> <u>chainsaw</u> <u>circular saws</u> <u>hammer</u> <u>pincers</u> <u>screwdriver</u>

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

Picture of	Page in textbook
Measuring tape	
Callipers	
Saw	
Sander	
Planer	

Language Level: A1/A2

Type of activity: pairs or individual 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

Language Level: A2 / B1
Type of activity: individual
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.

smohing	
mari_l	
roer	
oilone	
main_ry	
spring	
apia_ce	
avaa_le	

2. Write as many words as possible related to Hand Tools and Power Tools. You have 3 minutes!

Language Level: A1 / A2

Type of activity: pairs or individual 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 o	f wood together CWSSER
	Answer	
4.	When you prepare a tool to be used	ARHINGSPEN
	Answer	

Solve the secret code

English	A	Ε	G	اـ	0	R	5	٢
Code	В	X	У	I	G	Q	W	۵

example: IGWX = LOSE

DGGIW BQX YQXBD =

NAME:	DATE:
Mark the state of	D. T. I.

Language Level: A2 / B1

Type of activity: pairs or individual

Suggested time: 30 minutes



Completing sentences

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

Delo	w.							
MAR	KING-OU	T TOOLS						
This	group is	sometimes	referred	to as	geometrical	tools,	and	includes
		_ used to me	asure dist	ances a	nd angles, to	test th	e stra	ightness
of e	dges, and t	o mark circle	s and		·			
PERC	CUSSION	OR IMPELLI	NG TOOL	5				
Ham	mers, mall	ets and			are used to a	assembl	e join	ts or to
drive	e nails or s	crews into th	e materia	l. Some	percussion to	ols also	have o	ı cutting
or cł	nopping act	ion, such as t	he axe.					
SAW	/5							
Saws	s may be us	sed to reduc	e the size	of large	e sections of .			or to
work	very fine	joints. Ther	e are mar	ny saw _		, and	d one'	s choice
will	depend on [.]	the material	being cut	and the	profile of the	cut, i.e	e. whe	ther the
cut i	s straight	or curved.						
Wor	d Box							
	tools	curve	s ty	/pes	screwdrive	rs m	aterio	ıl

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Language Level: A2 / B1
Type of activity: individual
Suggested time: 40 minutes



Multiple choice

Read the text below and choose the best answers.

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 Who	nt can t	he narrow bandsaw be used [.]	to cut?	
	a)	nothing	b)	curved items
	c)	steel	d)	paper
2. Wh	at must	be fitted to the bandsaw fo	or each	operation?
	a)	timber	b)	plastic
	c)	the correct blade	d)	light metals
3. Wh	at drive	es one of the wheels in the b	andsaw	?
	a)	your hands	b)	narrow blades
	c)	batteries	d)	a motor
4. Sho	ould the	blade be forced off the who	eels wh	ile cutting?
	a)	Yes	b)	No
5. Is f	riction	reduced by the rotating disc	c?	
	a)	Yes	b)	No

Language Level: all

Type of activity: individual 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 <u>is used for</u> measur<u>ing</u> distances accurately.

The rule <u>is made from</u> stainless steel or boxwood



3. Yes/No Quiz

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

Using your textbook, find <u>one</u> 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

your own language.		
а	b	С
d	е	f
g	h	i
j	k	1
m	n	0
p	q	r
S	†	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.



Word search

Find the words from the list below.

F C XH SA W 5 HE A D TE ETH Α Ε R Ι V Т S R Ι ALCF QYFMAT Ε MORTISE ISEL DESP NC L Ι Ε CH L В Α R G N O F W O O D W O R K NGIOF Ι MFYOIL STONE X W O O DCKSAWMAL K H AL E T ADEHAMME В S YCHISEL SGAU E 0 G RE Ι Ε O I S C J W D R ٧ R LI RE DTFMIL M ET LQR E W S MSCR HAND Ε L R G T I M B E R T E L NONW BENCH HFΕ U У NIP N Ε DGE R Q Ζ ٧

BENCH	GAUGE	MATERIAL	SAWS
BLADE	HACKSAW	MILLIMETRE	SCREWDRIVER
BLADES	HAMMERS	MORTISE	<i>SC</i> REWS
CHISEL	HANDLE	OILSTONE	TEETH
CHISELS	HEAD	PINCERS	TENON
EDGE	MALLET	RIVETS	TIMBER
			WOOD
			WOODWORKING

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.		
describe	describe	
woodworking	woodworking	
drill	drill	

NAME:

NAME: DATE:				
NAME: DATE: Wood Technology: Hand Tools and Power Tools				
sander	sander			
machinery	machinery			
portable	portable			

NAME:	DATE:
NAME:	Power Tools
workshop	workshop
e×plain	e×plain
available	available

NAME:	DATE:	
Wood Technology: Hand Tools and Power Tools		
goggles	goggles	
rotates	rotates	
timber	timber	

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

Hammers, mallets and **screwdrivers** 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 **material** or to work very fine joints. There are many saw **types**, 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.

Multiple Choice, page 13

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

Word Search, page 16

```
C
               F
             XH
            SAWS
            HE
               A
                 D
          ATE
               E
                 TH
          R
            IVE
                 T
            IAL
                 CFMORTISE
QYFMATER
CHISEL
          В
            LADESP
                     Ι
                       NCER
                             S
 G N O F W O O D W O R K I N G I O F
            ST
               ONEXWOOD
   MFYOIL
    KHACK
            SA
               WMAL
         A D
                       S
            EHAMME
    YCHISEL
               SGAUG
         S C
    JOI
            RE
               MD
                  R
       MILLI
                     E
               ME
                  TR
   MSCREWS
                 HANDLE
                          R
 G T I M B E R
                    TE
                       NONW
 BENCH
                     UHF
                          E
NIPN
                         E
                          DG
                             E
R Q
                           Ζ
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