SCIENCE

Ecology and Habitats

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	Ecology and Habitats		
Levels	A1 – B1		
Language focus	Key vocabulary, word identification, sentence structure, extracting information from text, writing text, grammar.		
Learning focus	Using Science textbooks and accessing curriculum content and learning activities.		
Activity types	Matching, word identification, structuring sentences and text, cloze, multiple choice, reading comprehension, categorising vocabulary, recording learning, developing a learning resource.		
Acknowledgement	Extracts from Science Revision for Junior Certificate. Shea Mullally. Gill & Macmillan.		
	We gratefully acknowledge Gill & Macmillan for the right to reproduce text in some of these activities.		
Learning Record	A copy of the Learning Record should be distributed to each student.		
	Students should:		
	Write the subject and topic on the record.		
	Tick off/date the different statements as they complete activities.		
	Keep the record in their files along with the work produced for this unit.		
	4. Use this material to support mainstream subject learning.		

NAME:	DATE:

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.
 - o 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.

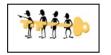


Recording what they have learnt on the *Learning Record*, which should be distributed at the start of each unit.



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.

NAME:		DATE:		
001-110-		1.11.1.14.4		

Keywords

The list of keywords for this unit is as follows:

Nouns

absence matter
animal mice
availability nest
bacteria number
balance organism
bees photosynthesis

chain plant presence community producers rabbits decay relationships

decomposers species
decomposition surroundings
ecology survival
ecosystem web
energy woodland

energy transfer

environment **Verbs** feeding level to break down food chain to decompose food source to depend food supply to eat food web to feed fox/foxes to get fungus/fungi to link

habitat to occupy hedgehog to produce level to provide living things to show to supply to surround to survive to transfer

Adjectives affected dead

environmental

green

interconnected interdependent

large linked particular plentiful rare scarce wooden

Adverbs greatly sexually

Other

different types living together

NAME:	DATE:	
SCIENCE: Ecology and Habitats		

Vocabulary file 1

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

Word	Meaning	Word in my language
bacteria		
chain		
consumers		
decomposers		
ecology		
environment		
feeding level		

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

NAME:	DATE:	
SCIENCE: Ecology and Habitats		

Vocabulary file 2

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

Word	Meaning	Word in my language
food chain		
food supply		
habitat		
living things		
photosynthesis		
producers		
surroundings		

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

NAME:	DATE:	
SCIENCE: Ecology and Habitats		

Vocabulary file 3

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

Word	Meaning	Word in my language
to decompose		
to feed		
to produce		
to supply		
to survive		
environmental		
interconnected		

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

NAME:	DATE:	

Level: all

Type of activity: whole class

Focus: vocabulary, spelling, dictionary, categorising

vocabulary

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 term for the spidergram:

habitat environment

- 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.

Level: A1

Type of activity: pairs or

individual

Focus: vocabulary, spelling,

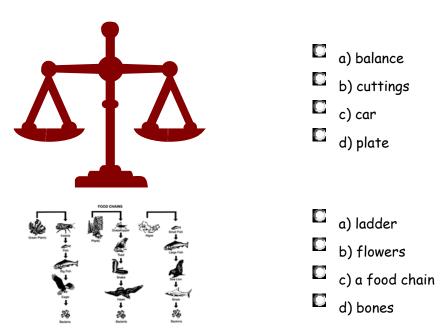
dictionary

Suggested time: 30 minutes



Working with words

1. Tick the correct answer



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	Explanation	In my language
	textbook		
decay			
food chain			
habitat			
species			



Check that these key words are in your personal dictionary.

Level: A1

Type of activity: pairs or

individual

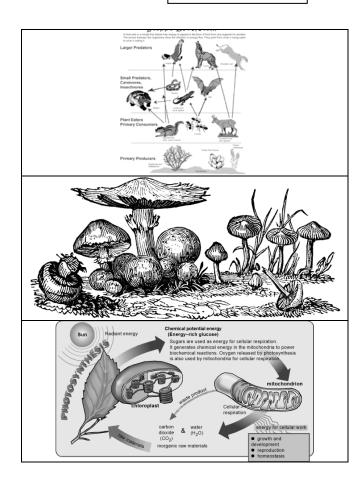
Focus: vocabulary, basic

sentence structure

Suggested time: 30 minutes

Picture Sentences

- 1. Tick the correct answer
- a) This is a tree.
- b) This is a food web
- c) This is a rain storm.
- a) This is a bus.
- b) These are fungi.
- c) This is a fireman.
- a) This is a newspaper.
- b) This is rain.
- c) This is photosynthesis.



2. Put these words in the correct order to form sentences.

energy from sun the comes

light water heat space compete plants for and

food, shelter, territory, mates animals compete for and

NAME: SCIENCE: E	Ecology and Ha		DATE:	
Level: A ² Type of a individua	activity: pairs o	r	Focus: word identification, vocabulary, structuring answ Suggested time: 20 minut	
		d One Out	i	200
1. Circle t	the word which	does not fit wit	th the other words in each	line.
Example:	chair de	esk book	train	
fox	bees	cat	clock	
habitat	shelte	r watch	environment	
organism	chain	animal	television	
fox	hedgeh	og mice	tiger	
	se words in you Use a dictionar		n put them in short sentence.	s in your
to decompo	se			
to produce				
to survive				
to supply				
to feed				

Check that these key words are in your personal dictionary.

NAME:		DATE:_		
SCIENCE: Ecology	and Habitats			
Level: A2 / B1 Type of activity:	individual		Focus: key vocabu structuring sentence Suggested time: 2	es
	Science	Keywords		1111
 Fill in the missir On the line beside a verb. 	_	•	d below. vord is a noun, an ad	jective or
e_olo_y		<u>-</u>		
o_gan_sm		-		
a_im_l				
c_ai_				
2. Write as many (minutes!	vords as possib	ole related to ecc	ology and habitats.	You have 3
		 		

Check that these keywords are in your personal dictionary.

Level: A1 / A2

Type of activity: pairs or

individual

Focus: key vocabulary, pronunciation, spelling

Suggested time: 20 minutes



Unscramble the letters

1. This is where and animal of plant lives

HBAITAT

Answer

2. This the study of the relationship of living things ECLOOGY

Answer

3. Everything that surrounds a animal or plant EVNIRONENTM

Answer

4. A type of animal RBABIT

Answer _____

Look at each word as you write the answer.

Is your spelling correct?

Can you pronounce the word?

Do you know what the word means?

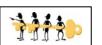
Have you got this word in your <u>personal</u> dictionary?



Solve the secret code

English=	A	С	D	Ε	L	I	Ν	M	0	S	T	U
Code=	В	X	У	F	G	Q	R	0	L	E	A	W

example: (code) EAWYFRA = STUDENT (English)



BRQOBG =

SCIENCE: Ecology a	and Habitats	DATE	Ē:		
Level: A2 / B1 Type of activity: paindividual			extracting vocabular	eading compre g meaning from ry ed time: 40 m	text,
	Com	pleting tex	ĸt		111
 Fill in the blank below. 	s in these sent	ences. Use	words from	n the Word B	o×
their environment. Their environment. It includes the second of the availal things. There are many diffeor meadow. Each halp plants that live there	e air,, lings are affect bility of food ar erent types of bitat has its ow	rocks, stone ed by their o nd on the pro habitat, e.g. n	s, soil and o environment esence or ab woodland, p which suits	ther animals of Their numbers of other of other ond,, at the animals of	nd rs er living river and
Word Box	plants	water environme	seashore	animals rounds	
		2	541		

fox

cat

rabbit

woodlouse

flea

spider

hedgehog

field mouse

bee

NAME:	DATE:

Level: A2 / B1

Type of activity: individual

Focus: key vocabulary, topic

information, reading

comprehension, multiple choice **Suggested time:** 30 minutes

Multiple choice



Read the text below and choose the best answers.

Transfer of energy: Energy is transferred from the sun to plants. Photosynthesis is the process by which green plants make their own food. Plants need the green chemical called chlorophyll to make food. Plants transfer this food energy to animals.

Food chains

A food chain shows how organisms are linked by what they eat, each organism provides food for the next organism. Food chains must start with green plants, because only they can make food. Green plants are called producers. All other organisms in a food chain are called consumers because they consume food. For example, grass is eaten by rabbits, rabbits are eaten by foxes.

- 1. How do plants produce food?
 - a) by cooking

- b) from people
- c) by photosynthesis
- d) by fire

- 2. What is chlorophyll?
 - a) a chemical

b) an animal

c) a plant

- d) a person
- 3. How are organisms linked in a food chain?
 - a) by where they live
- b) by what they drink

c) by what they eat

d) by their skin

- 4. Are green plants consumers?
 - a) Yes

b) No

- 5. Are foxes consumers?
 - a) Yes

b) No

NAME:	DATE:	

Level: B1

Type of activity: pairs / small

groups

Focus: vocabulary, planning

and structuring text

Suggested time: 40 minutes

Planning text

Use this chart to plan a short talk on 'The joys of the countryside'

Introduction

Tell listeners that you will describe both city life and country life. You will explain that the benefits of country life are so much better than city life.

Important words for this topic.

First paragraph
Description of the countryside, the sounds
(birds, insects), the sights, the smells, and

the peace of mind it brings. Describe natural habitats and food chains

Second paragraph
Description of city life, pollution, noise, stress, how bad it is for health.

Concluding points
City dwellers don't know what they are missing.



AME:	DATE:	_
CIENCE: Ecology and Habit		
Jse vour plan and vour textbo	ook to write about: 'The joys of the countrysid	e'
your prair and your ronner	'.	
	·	

When your teacher has checked this. file it in your folder so you can use it in the future.

NAME:	DATE:

Level: A2/B1

Type of activity: individual

Focus: the passive form + by **Suggested time:** 30 minutes



Grammar Points

In this Unit, we came across food chains. To describe food chains, we use the passive form (be + past participle) + by.





For example: The bumble bee is eaten by the field mouse, the field mouse is eaten by the cat.

Write out examples of food chains by using the following insects and animals and birds.

grass →	rabbit →	fox
dead leaves \rightarrow	wood louse $ ightarrow$	blackbird
dead leaves →	earthworm →	hedgehog
primrose →	field mouse $ ightarrow$	badger

NAME:	DATE:	
SCIENCE: Ecology and Habitats		

Levels: A1/A2

Alphaboxes

Using your textbook, find \underline{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.

α	Ь	С
d	е	f
g	h	i
j	k	I
m	n	0
р	q	r
S	†	u
V	W	хуz

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.

NAME:	DATE:

Word search



Level: All levels

Find the words from the list box below.

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

Т	В	Ν	L	G	С	R	У	Μ	Ε	U	0						U	Ε	Н	D	U	D						
X					W	Ε	В	Ν	Н	J	Q							S	Ι	R	В							
У					D	S	Ε	Ε	У	Α	L	X							U	0								
Ν					В	Ι	U	W	Ε	Μ	Α	Н			V	С			Ι	R								
В					G	L	Ν	В	В	Т	У	Μ			V	Z			Α	U								
Ρ	Ν	Ι	Ν	Т	Ε	R	С	0	Ν	Ν	Ε	С	T	Ε	D	F	U	Α	В	G	J	Ν	Κ					
0	Α	Ν	U	R	F	S	0	J	Н	Α	В	Ι	T	Α	Т	Ι	F	Α	V	F	Н	Z	S	U	Н			
Ρ	Κ	У	c	c	Q	R	V	Ε	Ν	J	0	0	Κ	c	Н	Α	I	Ν	S	S	U	Q	Т	В	J			
0	R	G	Α	Ν	I	S	Μ	S	Q	Q	0	U	Α	X	I	J	Т	Н	Т	V	L	D	С	0	Т			
В	В	J	F	С	Ε	X	Μ	Q	Т	U	Α	С	G	Т	Ν	F	0	F	Ε	Ε	D	I	Ν	G	V			
Ρ	D	Ε	Ρ	Ε	Ν	D	Κ	S	Z	Ρ	G	X	Z	F	D	L	В	Α	Ν	I	Μ	Α	L	L				
Μ	Κ	X	V	S	С	Ε	Ν	V	I	R	0	Ν	Μ	Ε	Ν	Т	F	Z	D	J	У	С	Q	Ρ				
Ε	c	0	L	0	G	У	Ρ	R	Н	У	Q	Μ	W	S	Μ	J	Α	Ν	Ι	Μ	Α	L	S	S				
0	F	G	Н	С	Н	Α	Ι	Ν	Q	У	Μ	W	T	Κ	С	Ε	Ε	D	Ρ	J	Т	Ρ	S	V	W			
																									Μ	У		
0	D	Е	С	0	Μ	Ρ	0	S	Ε	R	S	F	Н	c	R	Q	Μ	L	Ρ	L	Α	Ν	Т	S	I	J	Κ	
																									0			Н
					У								Ν									Е						
				I	В	Z				Р	С	F				Р	J	S				Т	С	Н				

ANIMAL	ECOLOGY	WEB
ANIMALS	ENERGY	FEEDING
CHAIN	ENVIRONMENT	FOOD
CHAINS	ORGANISM	HABITAT
CONSUMERS	ORGANISMS	INTERCONNECTED
DECOMPOSERS	PLANT	OCCUPY
DEPEND	PLANTS	

NAME:	DATE:
SCIENCE: Ecology and Habitats	
Play	Snap
	same keywords. See <i>Notes for teachers</i> for
ideas about how to use the cards.	sume keywords. See thores for reachers for
>	
:	 :
	i i
chain	chain
	<u>i</u>
:	*
organism	organism
or garnsm	. Organism
· 	· ·
	:
ecology	ecology
-	· · · · · · · · · · · · · · · · · · ·
	:
	i

NAME:SCIENCE: Ecology and Habitats	DATE:
rabbit	rabbit
energy	energy
consumer	consumer

NAME:	DATE:
SCIENCE: Ecology and Habitats	
:	:
i i	<u> </u>
:	:
:	:
; h	
habitat	habitat
:	:
	:
:	:
!	
	:
• • • • • • • • • • • • • • • • • • •	:
	:
	:
environment	environment
	:
:	
<u>:</u>	<u>:</u>
	:
i i	:
:	:
decompose	decompose
:	
i i	i i
:	:
:	:

NAME:	DATE:	
SCIENCE: Ecology and Habitats		

Answer key

Working with words, page 8

1. a,c

Picture Sentences, page 9

b.b.c

Energy comes from the sun.

Plants compete for light, water, heat and space. (in any order)

Animals compete for food, shelter, territory and mates. (in any order)

Odd one out, page 10

Clock, watch, television, tiger

Key words, page 11

Ecology (noun), organism (noun), animal (noun), chain (noun)

Unscramble the letters, page 12

Habitat, ecology, environment, rabbit

Secret code: animal

Completing text, page 13

Ecology is the study of the relationships between plants and animals and their environment. The environment is everything that surrounds an animal or plant. It includes the air, water, rocks, stones, soil and other animals and plants. All living things are affected by their environment. Their numbers depend on the availability of food and on the presence or absence of other living things.

There are many different types of habitat, e.g. woodland, pond, **seashore**, river or meadow. Each habitat has its own **environment** which suits the animals and plants that live there. For example, a woodland habitat or a seashore habitat.

Animals: hedgehog, fox, rabbit, field mouse, cat

Insects: bee, flea, woodlouse, spider

Multiple Choice, page 14

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

Grammar points, page 17

The grass is eaten by the rabbit, the rabbit is eaten by the fox.

The dead leaves are eaten by the wood louse, the wood louse is eaten by the blackbird.

The dead leaves are eaten by the earthworm, the earthworm is eaten by the hedgehog.

The primrose is eaten by the field mouse, the field mouse is eaten by the badger.

NAME: DATE:

Word Search, page 19.

Т	В	Ν	L	G	C	R	У	Μ	Ε	U	0						U	Ε	Н	D	U	D						
Х					W	Ε	В	Ν	Н	J	Q							5	Ι	R	В							
У					D	S	Ε	Ε	У	Α	L	X							U	0								
Ν					В	I	U	W	Е	Μ	Α	Н			V	С			I	R								
В					G	L	Ν	В	В	Т	У	Μ			V	Z			Α	U								
Ρ	Ν	I	Ν	Т	Ε	R	C	0	Ν	N	Ε	С	Т	E	D	F	U	Α	В	G	J	Ν	Κ					
0	Α	Ν	U	R	F	S	0	1	н	Α	В	I	Т	Α	Т	I	F	Α	V	F	Н	Z	S	U	Н			
Ρ	Κ	У	c	C	Q	R	V	Ε	Ν	J	0	0	Κ	c	н	Α	I	Ν	s	S	U	Q	Т	В	J			
0	R	G	Α	Ν	I	s	M	s	Q	Q	0	U	Α	X	I	J	Т	Н	Т	V	L	D	С	0	Т			
В	В	J	F	C	Ε	X	Μ	Q	T	U	Α	С	G	Т	Ν	F	0	F	Ε	Ε	D	Ι	N	G	V			
Ρ	D	E	Ρ	Ε	Ν	D	Κ	S	Z	Ρ	G	X	Z	F	D	L	В	Α	Ν	I	M	Α	L	L				
Μ	Κ	X	V	S	С	Ε	Ν	٧	I	R	0	Ν	М	Ε	Ν	Т	F	Z	D	J	У	С	Q	Ρ				
Е	С	0	L	0	G	У	Ρ	R	Н	У	Q	Μ	W	S	Μ	J	Α	Ν	I	M	Α	L	s	S				
0	F	G	Н	С	Н	Α	I	Ν	Q	У	Μ	W	Т	Κ	c	Ε	Ε	D	Ρ	J	Т	Ρ	S	V	W			
W	D	Ε	Ν	Ε	R	G	У	Ζ	Μ	0	F	0	0	D	Ρ	S	Т	0	R	G	Α	Ν	I	s	M	У		
0	D	Ε	c	0	M	Ρ	0	s	Ε	R	S	F	Н	c	R	Q	Μ	L	P	L	Α	Ν	Т	s	I	J	Κ	
Z	D	Ρ	L	Α	Ν	Т	0	С	С	υ	Ρ	У	С	0	Ν	s	υ	М	Ε	R	s	Ρ	F	Т	0	F	W	Н
			F	G	У	Т	F		Μ	W	Н	T	Ν		I	J	F	У	Κ		X	Е	V	G	W			
				T	В	7				Р	C	F				Р	J	5				Т	C	Н				