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 Habitat	s		
All students:	Keywords	3		
	Vocabulary File	4-6		
Activities that are suitable for Learning Support, Language	Activating Students' Existing Knowledge	7		
Support and the Mainstream	Completing Sentences	13		
Subject Class include:	Multiple Choice	14		
	Planning and Writing Text	15-16		
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Language support:	Picture Sentences	9		
Activities suitable for students receiving Learning or Language	Odd One Out	10		
Support include:	Science Keywords	11		
	Unscramble the letters	12		
	Alphaboxes	18		
	Play Snap	20-22		
Language support:	Grammar	17		
Additional activities for Language Support:				
Levels for Language Support	A1 – B1 The language level of ea indicated in an information box.	ach activity is		
Learning focus	Using Science 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 Science Revision for Junior Cert. by Shea Mullally			

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.

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**.

NAME:

DATE:

SCIENCE: Ecology and Habitats

Keywords

The list of keywords for this unit is as follows:

Nouns

absence animal availability bacteria balance bees chain combination community consumers decay decomposers decomposition ecology ecosystem energy energy transfer environment feeding level food chain food source food supply food web fox/foxes fungus/fungi habitat hedgehog level living things

matter mice nest number organism photosynthesis plant presence producers rabbits relationships species surroundings survival web woodland

Verbs

to break down to decompose to depend to eat to feed to get to link to occupy to produce to provide 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:	
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Vocabulary file 1

Word	Meaning	Note or example*
bacteria		
chain		
consumers		
decomposers		
ecology		
environment		
feeding level		

*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, then file it in your folder so you can use it in the future.

NAME:	DATE:	
SCIENCE: Ecology and Habitats		

Vocabulary file 2

Word	Meaning	Note or example
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.

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SCIENCE: Ecology and Habitats	

Vocabulary file 3

Word	Meaning	Note or example
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.

DATE:

SCIENCE: Ecology and Habitats

NAME:

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.

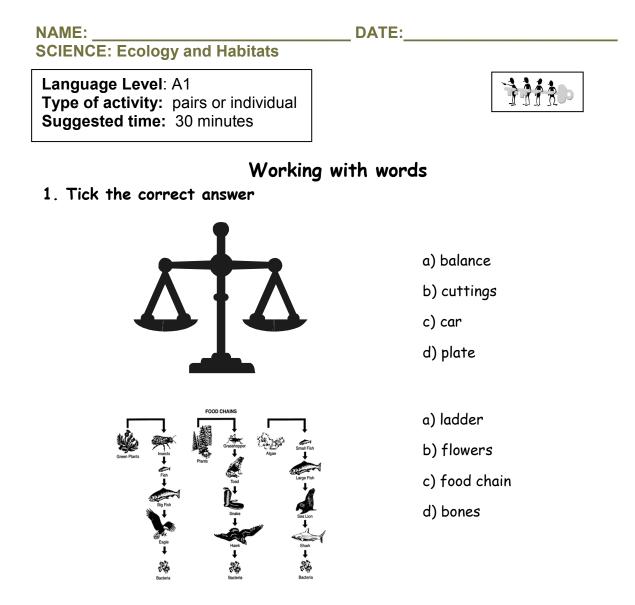
Possible key term for the spidergram:

Habitat Environment

- 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.



2. Find these words in your textbook.

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

Word	Page in textbook	Explanation	Note or example
decay			
food chain			
habitat			
species			



Check that these key words are in your personal dictionary.

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DATE:

SCIENCE: Ecology and Habitats

NAME:

Language Level: A1 Type of activity: pairs or individual 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.

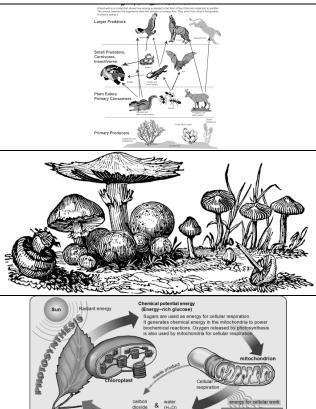
2. Put these words in the correct order to form sentences.

energy from sun the comes

light water heat space compete plants for and

food, shelter, territory, mates animals compete for and







NAME:

DATE:

SCIENCE: Ecology and Habitats

Language Level: A1 / A2 Type of activity: pairs or individual Suggested time: 20 minutes



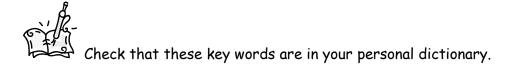
Odd One Out

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

Example:	chair desk	book train	
fox	bees	cat	clock
habitat	shelter	watch	environment
organism	chain	animal	television
fox	hedgehog	mice	tiger

2. Find these words in your textbook. Then put them in short sentences in your own words. Use a dictionary if necessary.

to decompose	
to produce	
to survive	
to supply	
to feed	



DATE:

SCIENCE: Ecology and Habitats

Language Level: A2 / B1 Type of activity: individual Suggested time: 20 minutes



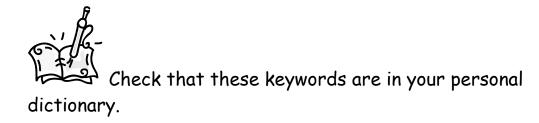
Science Keywords

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.

e_olo_y _____ o_ gan_sm _____ a_im_l _____ c_ai_ ____

2. Write as many words as possible related to **ecology and habitats**. You have 3 minutes!



Type of activity: pairs or individual Suggested time: 20 minutes Unscramble the letters 1. This is where and animal of plant lives HBAITAT Look at each word as you Answer write the answer. 2. This the study of the relationship of living things ECLOOGY Is your spelling Answer correct? Can you 3. Everything that surrounds a animal or plant EVNIRONENTM pronounce the word? Answer Do you know 4. A type of animal RBABIT what the word means? Answer Have you got this word in



Solve the secret code

English=	A	С	D	Ε	L	Ι	Ν	Μ	0	S	Т	U
Code=	В	X	У	F	G	Q	R	0	L	Ε	A	W

example: (code) EAWYFRA = STUDENT (English)

BRQOBG =

your personal dictionary?



_____ DATE:_____

SCIENCE: Ecology and Habitats

NAME:

Language Level: A1 / A2

SCIENCE: Ecology and Habitats

NAME:

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



Completing text

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

Ecology is the study of the relationships between plants and ______and their environment. The environment is everything that ______ an animal or plant. It includes the air, _____, rocks, stones, soil and other animals and ______. 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, _____, river or meadow. Each habitat has its own _____ which suits the animals and plants that live there. For example, a woodland habitat or a seashore habitat.

Word Box

plants water seashore animals environment surrounds

2. Below is a list of animals and insects referred to in your textbooks. Look at each word and decide if it is an **animal** or an **insect**. You can help one another and check your dictionary.

bee field m	hedgehog ouse	cat	fox woodlouse	rabbit spider	flea
Animal	S			Insec	:ts

SCIENCE: Ecology and Habitats

Language Level: A2 / B1 Type of activity: individual 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

2.

3.

4.

NAME:

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?

How a	o plants produce tood?		
a)) by cooking	b)	from people
c)) by photosynthesis	d)	by fire
What	is chlorophyll?		
a) a chemical	b)	an animal
c)) a plant	d)	a person
How a	re 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
Are gr	reen plants consumers?		
a) Yes	b)	No

b)

No

- 5. Are foxes consumers?
 - a) Yes

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NAME: _

DATE:

SCIENCE: Ecology and Habitats

Language Level: B1 Type of activity: pairs / small groups Suggested time: 40 minutes

Planning and writing text

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

Introduction Tell readers 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.	
Have you ticked	

this activity on your Learning Record?

	DATE: Habitats
se your plan and your te	extbook to write about: ' The joys of the countryside '
	• • • • • • • • • • • • • • • • • • • •
	••••••••••••••••••••••••
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	• • • • • • • • • • • • • • • • • • • •
When your teacher	has checked this. file it in your folder so you can use it in the futu

DATE:

NAME: ______ SCIENCE: Ecology and Habitats

Language Level: A2/B1 Type of activity: individual 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 leave	es $ ightarrow$ wood lous	se → blackbird	
dead leave	es \rightarrow earthwor	rm → hedgehog	
primrose	$e \rightarrow field m$	ouse → badger	

NAME:		DATE
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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.

٥	b	С	
			Do you
d	e	f	understand all these words?
9	h	i	Get your teacher to
j	k	I	check this, then file it in your folder so you can
m	n	0	use it in the future.
þ	9	r	
S	+	u	
V	W	хүz	

NAME: ______ SCIENCE: Ecology and Habitats

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Word search

Find the words from the list box below.

т	В	Ν	L	G	С	R	У	м	E	υ	0						U	E	н	D	υ	D						
х					W															R								
У								E												0								
N						Ι		w							V	С			Ι	R								
в						L		в							v	Z			А	υ								
Ρ	N	Ι	N	т									Т	Е	D	F	υ	Α	в	G	J	N	к					
0													т											υ	н			
Ρ	к	У	С	С	Q	R	V	Е	Ν	J	0	0	к	С	н	А	Ι	N	S	S	υ	Q	Т	В	J			
0													A															
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Μ	к	х	v	s	С	Е	N	v	I	R	0	Ν	Μ	Е	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	А	Ν	Ι	Μ	А	Ľ	S	S				
0	F	G	н	С	н	А	Ι	Ν	Q	У	M	w	Т	κ	С	Е	Е	D	Ρ	J	т	Ρ	S	v	W			
W	D	Е	Ν	Е	R	G	У	Ζ	Μ	0	F	0	0	D	Ρ	S	Т	0	R	G	А	Ν	Ι	S	М	У		
0	D	Е	С	0	М	Ρ	0	S	Е	R	S	F	н	С	R	Q	Μ	L	Ρ	L	Α	Ν	Т	S	I	J	κ	
Ζ	D	Ρ	L	Α	Ν	Т	0	С	С	υ	Ρ	У	С	0	Ν	S	υ	Μ	Е	R	S	Ρ	F	т	0	F	W	н
			F	G	У	Т	F		м	W	н	Т	Ν		I	J	F	У	κ		х	Е	v	G	W			
				I	в	Ζ				Ρ	С	F				Ρ	J	S				т	С	н				

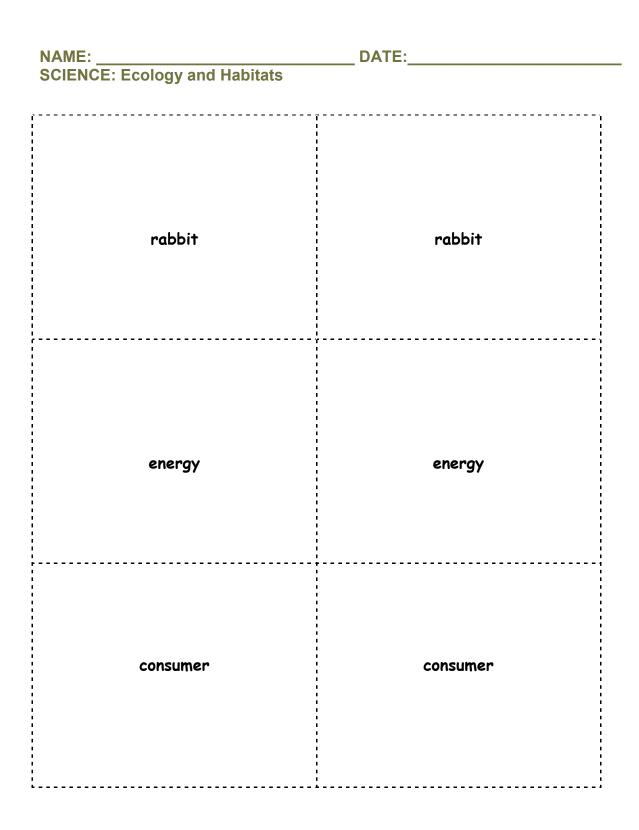
ANIMAL	ECOLOGY	WEB
ANIMALS	ENERGY	FEEDING
CHAIN	ENVIRONMENT	FOOD
CHAINS	ORGANISM	HABITAT
CONSUMERS	ORGANISMS	INTERCONNECTED
DECOMPOSERS	PLANT	OCCUPY
DEPEND	PLANTS	

NAME:	_ DATE:
SCIENCE: Ecology and Habitats	

Play Snap

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

\times	
chain	chain
organism	organism
ecology	ecology



NAME: SCIENCE: Ecology and Habitats	DATE:
habitat	habitat
environment	environment
decompose	decompose

SCIENCE: Ecology and Habitats

NAME:

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:_____

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Word Search, page 19.

т	в	Ν	L	G	С	R	У	м	Е	υ	0						υ	Е	н	D	υ	D						
Х					w	Е	в	Ν	н	J	Q							S	I	R	В							
У					D	S	Е	Е	У	А	L	Х							υ	0								
N										Μ					v	С			Ι	R								
в										Т					v				A	υ								
Ρ	N	Ι	N	Т									т	Е	D	F	υ	A	в	G	J	Ν	к					
0													т											υ	н			
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													A															
в	в	J	F	C				1.1					G												V			
Ρ	D	Е	Ρ	Е	Ν	D	к	S	Ζ	Ρ	G	Х	Z	F	D	L	В	Α	Ν	Ι	M	Α	L	L				
Μ	Κ	Х	V	S	С	Е	Ν	۷	Ι	R	0	Ν	Μ	Е	Ν	Т	F	Ζ	D	J	У	С	Q	Ρ				
E	С	0	L	0	G	У	Ρ	R	н	У	Q	Μ	W	S	Μ	J	Α	Ν	Ι	Μ	Α	L	S	S				
											1.11		т												W			
													0													У		
													н														V	
2	D	P	L										С													F	W	н
			F	G	У	Т	F		Μ	W	н	Т	Ν		Ι	J	F	У	к		Х	Е	V	G	W			
				Ι	В	Ζ				Ρ	С	F				Ρ	J	S				Т	С	н				