NAME:	DATE:	
Salamaa: Camaamirat	ion and Dallution	

Science

Conservation and Pollution

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	Conservation and Pollution	
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:	
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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.
 - 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: DATES Conservation and Pollution	ΓΕ:		
Science: Conservation and Pollution			
Keywo	ords		
The list of keywords for this unit is as follow	vs:		
Nouns			
acid	Adjectives		
conservation	careful		
detergent	harmful		
earth	natural		
environment			
fertiliser			
human			
incineration			
incinerator			
materials			
pesticide			
pollution			
rain			
resources			
river			
sea			
sewage			
soil			
waste			
Verbs			
cause			
conserve			

conserve

dissolve

dump

pollute

recycle

NAME:	DATE:
Science:	Conservation and Pollution

Vocabulary file 1

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

Word	Meaning	Word in my language
pesticide		
harmful		
waste		
acid		
resources		
earth		

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

NAME:	DATE:	
Science: Conservat	ion and Pollution	

Vocabulary file 2

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

Word	Meaning	Word in my language
incineration		
fertiliser		
environment		
sewage		
dump		
natural		

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

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:

Pollution

Acid Rain

Recycling

- 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

7772

Working with words

1. Tick the correct answer



- C a) This is a beach.
- $^{\square}$ b) This is a dump.
- $^{\mathbb{C}}$ c) This is a recycling facility.
- $^{\mathbb{C}}$ d) This is a car park.



- $^{
 m C}$ a) This is a beach.
- $^{\mathbb{C}}$ b) This is a dump.
- C c) This is a recycling facility.
- C d) This is a car park.

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
	Page in textbook		
pollution			
natural			
resources			
conservation			
recycling			



Check that these key words are in your personal dictionary.

NAME:	DATE:	

Level: A1

Type of activity: pairs or

individual

Focus: vocabulary, basic

sentence structure

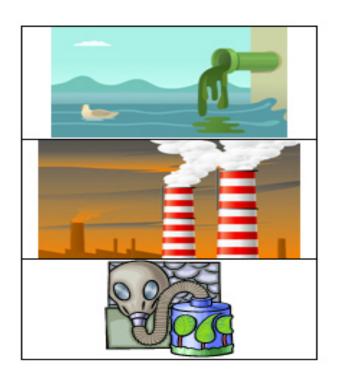
Suggested time: 30 minutes



Picture Sentences

1. Tick the correct answer

- a) This is air pollution.
- b) This is soil pollution.
- c) This is water pollution.
- a) This is air pollution.
- b) This is soil pollution.
- c) This is water pollution.
- a) This is air pollution.
- b) This is soil pollution.
- c) This is water pollution.



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

and/smoke/air pollution/ is caused by/ dust/ harmful gases

is caused by/ soil pollution/ pesticides / and/ acid rain/ artificial fertilisers

oil /fertilisers /water pollution/, sewage/ and detergents/ is caused by

Level: A1/A2

Type of activity: pairs or individual

Focus: word identification, vocabulary

Suggested time: 20 minutes



Odd One Out

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

Example:	apple orange	banana (ta	(Xi
earth	environment	wind	book
pollution	humans	waste	look
desk	conservation	seas	rivers
natural	detergents	great	materials
	e words in your textl ords. Use a dictiond	•	them in short sentences
to pollute			
to recycle			



to

Check that these key words are in your personal dictionary.

to dump _____

to dissolve

	Focus: key vocabulary, writing descriptive text Suggested time: 20 minutes
Keywords ng letters of the keywords list	ted below.
each word, write whether the o.	
•	Keywords ng letters of the keywords listers the each word, write whether the



Check that these key words are in your personal dictionary.

NAME: Science	e: Co	nserv	/atio	n and	Poll	[ution	DATE	:					
Level: A1 Type of a	ctivit		airs o	r									spellinç inutes
													iii
1. Ther	e are		e mai	n typ	es of			let [.]	P	LLO		:0	
2. 5	Soil po				•						ΓESIO -	CIED	,
3. \	V ater	•		•					-		ETRII	LISR	ES
4.	Γhe b	urnin	g of v	waste	is co	alled				ING	CNIE	RATI	NOI
		A	nsw	er _							_		
Solve	the	e se	cret	t co	de								
Engl			A	D	E	F	I	Ν	M	0	5	T	U
Cod	de	В	X	У	F	G	Q	R	0	L	E	A	W

ex: EAWYFRA = STUDENT

BXEAF _____

NAME:	DATE:
Science: Conservation and Po	lution
Level: A2 / B1 Type of activity: pairs or individual	Focus: reading comprehension, extracting meaning from text, vocabulary Suggested time: 30 minutes
Compl	eting sentences
Fill in the blanks in these sen below.	rences. Use words from the Word Box
POLLUTION	
is any undesirable	change in our caused by human
activities.	
· Water pollution is the introd	uction of anything into water which alters
any of its beneficial uses, e.g. s	ailing, fishing, drinking, etc.
· pollution is the	introduction of small suspended solids or
poisonous liquids and gases into	the air.
· rain is caused by ar	increase in the pH of normal rain
by the introduction of sulphur	dioxide and the oxides of nitrogen into the
air.	
Word Box:	

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Trinity Immigration Initiative 2007-2009

water

pollution

acid

environment atmospheric

NAME:	DATE:

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.

GREENHOUSE EFFECT

Certain gases in the air absorb ultraviolet radiation, which causes an increase in the temperature of the Earth. Carbon dioxide, methane and CFCs are some examples of greenhouse gases.

OZONE LAYER

A layer of ozone gas protects us from the harmful effects of radiation from the sun. Some gases, in particular CFCs, have created a hole in the ozone layer.

Effects of human activity on the environment

Treatment of waste - sewage.

Burning fossil fuels - greenhouse effect

Recycling of plastic, glass and aluminium cans.

Use of CFCs, which damage the ozone layer.

Restocking of fish in rivers.

Fish kills caused by silage and slurry.

Government levies - plastic bags.

Discharge of nitrates and phosphates into water

1.	What do d	certain gases in the air abso	rb?		
	a)	food	b)	natui	ral resources
	c)	people	d)	ultra	iviolet radiation
2.	What doe	s the layer of ozone gas do:	>		
	a)	causes damage	b)	prote	ects us
	c)	helps the earth	d)	saves	s the fish
3.	What hav	e some gases created?			
	a)	smoke and dust	b)	wate	r
	c)	a hole in the ozone layer		d)	trees
4	Should me	aterials such as namer alass	and nla	actice h	e recycleda

- 4. Snould materials such as paper, glass and plastics be recycled?
 - b)
- 5. Does the government collect money for plastic bags?
 - a) Yes b) No

NAME: Science: Conservation and Pollu	DATE: ution	
Level: A2 / B1 Type of activity: pairs / small groups		Focus: vocabulary, structure, planning and creating text Suggested time: 40 minutes
Writing	1	
Use your textbook to help you to pollution. Ask you teacher to che folder. Note - writing this out w	ck your wor	k, and then file it in your
	Pollution	
		
		· · · · · · · · · · · · · · · · · · ·
		
		
		
		
		
		· · · · · · · · · · · · · · · · · · ·



NAME:	DATE:
Science: Conservation and Polluti	on

Level: B1

Type of activity: individual

Focus: verb+ prepositions **Suggested time:** 30 minutes



Grammar points

Verb + preposition

1. Study the following sentence:

Air pollution is <u>caused by</u> smoke, dust and harmful gases.

The verb <u>cause</u> is often followed by the preposition <u>by.</u>

2. Look at the following list of verbs. Write down the preposition that usually follows the verb. Then write a sample sentence. You can compare your answers with the Answer Key.

+ preposition
by Acíd raín ís caused by pollutíon.

NAME:	DATE:		
Science: Conservation a	and Pollution		
Levels A1 and A2 - A	Alphaboxes		
	ord beginning with each of t box. You could also write the	•	
а	Ь	С	
1		•	
d	e	f	
9	h	i	Do you understand all these
			words?

0

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xyz

k

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q

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W

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m

p

S

٧

Get your teacher to

check this,

future.

then file it in your folder so you can use it in the

Word search

P H Q D T C



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

							0	W	Q E E	F A A T A	KARTHEU	\bigcirc \land \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc	V J Z F C R R	Q S U A X E B	FKLEZK	T E	S A V	л									
			_	×	У У Z	W D T P	KEQAYQW	KJTSQUK	P C C T K Z Z	J G R E S P O	BNIFOTR	0 0 V N I D A	HHETLCF	E L R Z Q S F	F Q S S L E E	F F C Z F W	Z T L A A A T	$Q \otimes H \vee D \otimes Z$	Z N L E A	D Q	W	I					
Z E P	E M S U	VEAYUTV	YNGYKOPIO	D K A T C U F C B	I A S N I M V I G	SZESCPEDS	SISDKIZEW	$O \times U \cup D \cup C \times S \in F$	LALQFGIZV	V L F V E T R E V	E S U O R Z O H Z	GFRUTTZGL	$ZZZIHL \times GS$	EJNYLVEEY	\times Z \times H H Z Z $\stackrel{\checkmark}{\sim}$ O	URJESATR从	RDJVEGZTO	K O A W R C I H B	B W L E S A P I J	Z D G F X U K E A	A B A N V S Y N	N B L L A E P V T	YXDTYOA	W W Y N Z	K S T		
	С						T H									I										D .	

ACID	DUMPING	HUMANS	RIVER
AFFECT	EARTH	INCINERATION	RIVERS
ANIMALS	ENVIRONMENT	NATURAL	SEWAGE
CAUSE	FERTILISERS	PESTICIDES	SOIL
DETERGENTS	GASES	POLLUTION	SULFUR
DISSOLVE	HARMFUL	RESOURCES	WASTE

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

NAME: ____ DATE: ____ Science: Conservation and Pollution

NAME:	DATE:	
Science: Conservation and Pollution		
	<u> </u>	
	1	
	:	
	· ·	
incinerator	incinerator	
	<u>:</u>	
	: -	
	:	
	3	
	<u>:</u>	
	1	
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wastes	wastes	
	:	
	<u> </u>	
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	:	
	:	
	:	
detergents	detergents	
-	:	
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	:	
	:	

NAME:	DATE:
Science: Conservation and Pol	llution
- -	:
-	:
-	:
<u>.</u> 1	<u>:</u>
fertiliser	fertiliser
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•	<u>:</u>
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resources	resources
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:	:
	: :
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•	:
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•	:
rain	rain
, run	. rum
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	<u>:</u>
•	•

NAME:	DATE:	
Calanaa, Canaamia	tion and Dalletian	

Answer key

Working with words, page 7

1. b. c

Picture sentences, page 8

- 1. c, a, b
- Air pollution is caused by dust, smoke and harmful gases.
 Soil pollution is caused by pesticides, artificial fertilisers and acid rain.
 Water pollution is caused by sewage, fertilisers and detergents.

Odd one out, page 9

Book, look, desk, great

Keywords, page 10

Earth (noun), humans (noun), rain (noun and verb), rivers 9noun)

Unscramble the letters, page 11

Pollution, pesticides, fertilisers, incineration

Secret code: waste

Completing Sentences, page 12

Pollution is any undesirable change in our **environment** caused by human activities.

- Water pollution is the introduction of anything into water which alters any of its beneficial uses, e.g. sailing, fishing, drinking, etc.
- Atmospheric pollution is the introduction of small suspended solids or poisonous liquids and gases into the air.
- Acid rain is caused by an increase in the pH of normal rain water by the introduction of sulphur dioxide and the oxides of nitrogen into the air.

Multiple Choice, page 13

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

NAME:	DATE:
Science: Conservation and Pollution	

Grammar point, page 15

Other verb + prepositions are possible, these are the most common.

verb	+ preposition
cause	by
	Acid rain is caused by pollution.
agree	with
	I agree with the teacher that spellings are difficult!
ask	for
	I asked for extra paper during the exam.
believe	in
	Most people believe in a god.
belong	to
	He belongs to a soccer club.
depend	on
	I depend on my parents for everything.
hope	for
	We are all hoping for a good summer.
good	at
	I am very good at English!
look	For
	Look for the special offers when you go shopping.
	A†
	Look at that sky – it's going to rain.
pay	for
	If you break something you have to pay for it.
talk	to
	I love talking to my sister.

Word search, page 17

EAP V JZJGKVNQ SAXFSF FRWCUK NATURALB QAHDRXEW DETERGENTS WEAUUIBKEA OP G L QR I VER V J KKPJBOHEFFZQ DEJCGNDHL QFTWV O QT C RIVERS CLIZ M W A S T E F Z T N S N A V N K Y D Y Q K **S OI L** Q L F A U L D AYT QUZPTD C SE WAGE QE XZP MK ZOR **A F F E C T** N A V W EPZSCQINCINERATIONRI Y **DISSOLVE** GNEXURK BZAN CNK**ANI MALS**FNJNR DO W D B B Q V **G A S E S U L F U R** N N X J J A L *G* A L Y DEYTNSDJQVOUHYTEVWEFNLXD E A K C I C K H F E R T I L I S E R S X V A D W B M Y **D U M P I N G** T Z T L V N A G C A U S E T M K Z S U P F V **E N V I R O N M E N T** N I P K Y P Y Y K PESTICI DES ZEHGGEARTHIEZ VON SB HPUVDB6VMFVVZL SYOMOB JAL TAZ TK QDTDPOLLUTIONPHUMANSRESOURCESB TCTC VSJL K HAR MFULTSIIF K XL P AC I D T