

1. Look at the following pictures. Which of them illustrates a bigger source of pollution?





- 2. Read the following excerpt about pollution and check your answer to the previous activity. Cattle farms pollute our planet the most.
- 1. Meet the world's top destroyer of the environment. It is not the car, or the plane, or even George Bush: it is the cow.
- 2. A United Nations report has identified the world's rapidly growing herds of cattle as the greatest threat to the climate, forests and wildlife. [...]
- 3. The 400-page report by the Food and Agricultural Organisation, entitled Livestock's Long Shadow, also surveys the damage done by sheep, chickens, pigs and goats. But in almost every case, the world's 1.5 billion cattle are most to blame. Livestock are responsible for 18 per cent of the greenhouse gases that cause global warming, more than cars, planes and all other forms of transport put together.

cthis collective noun can be followed by either a singular or a plural verb. The same happens to most of collective nouns.

- 4. Burning fuel to produce fertiliser to grow feed, to produce meat and to transport it and clearing vegetation for grazing - produces 9 per cent of all emissions of carbon dioxide; the most common greenhouse gas. And their wind and manure emit more than one third of emissions of another, methane, which warms the world 20 times faster than carbon dioxide.
- 5. Livestock also produces more than 100 other polluting gases, including more than two-thirds of the world's emissions of ammonia, one of the main causes of acid rain.
- 6. Ranching, the report adds, is "the major driver of deforestation" worldwide, and overgrazing is turning a fifth of all pastures and ranges into desert. Cows also soak up vast amounts of water: it takes a staggering 990 litres of water to produce one litre of milk.

litres: UK spelling. litters: US spelling.

- 7. Wastes from feedlots and fertilisers used to grow their feed overnourish water, causing weeds to choke all other life. And the pesticides, antibiotics and hormones used to treat them get into drinking water and endanger human health.
- 8. The pollution washes down to the sea, killing coral reefs and creating "dead zones" devoid of life. One is up to 21,000sqkm, in the Gulf of Mexico, where much of the waste from US beef production is carried down the Mississippi.
- 9. The report concludes that, unless drastic changes are made, the massive damage done by livestock will more than double by 2050, as demand for meat increases.

Read the article again and indicate the paragraph(s) where you can find the following information.	than cars, planes and all other forms of transport put together."				
a) Rearing cattle is a threat to forests. 2, 4 and 6	I. () eggs produced on a farm				
b) A warning about the future. 9	II. () means of transportation used on a farm				
c) Rearing cattle is water-polluting. 7 and 8	III. (✓) farm animals raised for food, labor, etc.				
d) Gases produced by livestock 3, 4 and 5	 c) "Burning fuel to produce fertiliser to grow feed, to produce meat and to transport it – and clearing 				
e) The answer to the question: Which pollutes our planet the most? 1	vegetation for grazing — produces 9 per cent of all emissions of carbon dioxide, the most common				
f) Details about the United Nations report on livestock	greenhouse gas."				
and their impact on the environment. 3	I. () food for farm animals - crops				
Fun facts	II. () crops - pastures				
Herd is the collective noun used for quite a few	III. (✓) food for farm animals - pastures				
animals, such as cows, elephants, deer, and zebras.	d) "And their wind and manure emit more than one third of emissions of another, methane, which warms the world 20 times faster than carbon dioxide."				
Choose the word or phrase that best replaces the words in bold.					
	I. () flatulence – liquid waste				
 a) "A United Nations report has identified the world's rapidly growing herds of cattle as the greatest 	II. (✓) flatulence – solid waste				
threat to the climate, forests and wildlife."	III. () breath – solid waste				
 (✓) groups of bovine animals 	 e) "Ranching, the report adds, is 'the major driver of deforestation' worldwide, and overgrazing is turning 				
II. () groups of birds	a fifth of all pastures and ranges into desert."				
III. () groups of marsupials	I. (🗸) grazing land				
b) "Livestock are responsible for 18 per cent of the	II. () mountains				
greenhouse gases that cause global warming, more	III. () forests				
"Wastes from feedlots and fertilisers used to grow their feed overnourish water, causing weeds to choke all other life."	d) What's this smell? I think this cow just passed some wind				
I. () feed	e) Large areas of rainforest are being cut down for grazing				
II. () strangle	What would you be willing to do in order to help with the problem described in the article? Check all that				
III. () embellish	apply.				
Complete the following sentences with the words from activity 4.	a) () Cut down on meat Estimule os alunos a justificar suas respostas e também				
a) The livestock sector is in crisis.	b) () Go vegan apresentar outras soluções ao problema descrito no texto.				
b) Eww! I think I just stepped on manure!	c) () Go vegetarian Answers will vary.				
c) Don't hold the little chick like that. You're going to	d) () Educate people about the impact of meat				
of point more time times that, not be doing to					

choke the poor thing.

production on the environment

30 WATS to protect the environment. 1991. (Wallande al: «mitp://www.epa.onio.gow/pic/lacis/30/9ears/ups.aspx5-, //ccessed on: 26 july 2013.

2. Read about ways to protect the environment again and classify them into the following categories.

Reusing	Reducing
Paper or plastic? []	Conserve energy []
Give it away, don't throw it away []	Don't water the sidewalk []
Use rechargeable batteries []	Don't do the dishes until you have a full load []
	Don't let the water run while you shave or brush your teeth []
	Take a short shower []
	Use both sides of the paper []
Recycling	Protecting natural resources
Recycle. If your community []	Plant a tree []

3. What else can you do to protect the environment?
Discuss with your classmates. Then write down you
answer.

Answers will vary.				

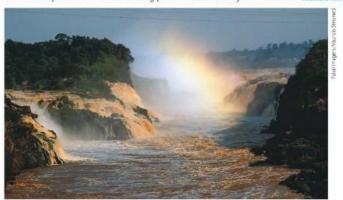
Sugestão de atividade para casa: questão 5 da seção Challenge yourself.

Did you know?

Ecological footprint is the concept by which we measure the amount of environment necessary to produce the resources we consume. By measuring your ecological footprint, it is possible to estimate how many planets it would be necessary if everyone led your lifestyle.



1. What is the name of the place shown in the following picture? Discuss with your classmates. Answers will vary



Listen to a teacher talking about the place shown in activity 1 and check your answer.

Guaira Falls

- 3. Listen again and mark the following statements true
 (T) or false (F). Correct the wrong ones. (1) Track 19
- a) (T) None of the students were able to name the place in the picture.
- b) (F) The teacher points out students' wrong answers softly. No, he uses expressions like "wrong by a mile", "way off".
- c) (T) The teacher visited the Guaira Falls when they existed.
- d) (T) None of the students were born in or before

- e) (F) The Guaira Falls are also known as Eight Falls.
- f) (F) The Guaira Falls were destroyed by accident.
 The Guaira Falls were destroyed so a hydroelectric plant could be built g) (T) The Guaira Falls belonged to Paraguay and
- g) (1) The Guaira Falls belonged to Paraguay and Brazil.
- h) (F) There is a chance the Guaira Falls may be restored to life in the future.

 No, because the rocks were dynamited for navigation.
- Read the sentences and phrases taken from the listening and answer the following questions.

Try again. It's getting closer.
You can say that again. I'll get to that in a second.
Way off. Wrong by a mile.
I give up.

Após terem completado o exercicio, reproduza o áudio da atividade 3 novamente para que os alunos confiram suas respostas. a) Which expression is used to say you'll be talking about something soon?

I'll get to that in a second.

b) Which expression is used to encourage somebody not to give up?

Try again.

c) Which expressions are used to say that somebody's answers are completely wrong?

"Way off" and "wrong by a mile".

Após terem completado o exercicio, desafie os alunos a, em duplas, criar um pequeno diálogo usando duas das expressões listadas no boxe da atividade 4.

5. Complete the following conversation between Hanna and Brian using three expressions from activity 4.



6. In small groups, discuss the following question posed by the teacher in her class. Answers will vary.

Do we have the right to destroy something made by nature in the name of what we call "progress"?



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d) Which expression is used to say that somebody is

e) Which expression is used to say that you agree with

f) Which expression is used to say that you no longer

wish to keep on doing something?

not that far off from giving the right answer?

It's getting closer.

somebody?

You can say that again.

mine.

Lingua Inglesa



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Relative clauses

 Relative clauses are used to identify, classify or add extra information about a person or thing. Observe the example sentences that illustrate two different kinds of relative clauses and answer the following questions.



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a) Which relative clause gives extra information about somebody?

Ms. Tenenbaum, who works for WWF, is visiting our school on Monday.

b) Which relative clause is a comment on the whole main clause?

Amold is an animal rights activist, which is very interesting.

c) Which relative clause is used to define something or someone that is being talked about?

I like the bag that is made of canvas. / I like the one which is made of plastic. / Sylvia is the girl who started [...]. / Yes, she is the girl

that was on TV last night.

d) Which kind of relative clause are commas used with?

Non-defining relative clauses.

Observe the example sentences again and complete the rules concerning the use of the pronouns that, which, and who within relative clauses.

Which	is used for things an	d also to refer to the whole of a previous clause.
That	is used for people a	nd things in defining relative clauses.
Who	is used for people in	defining or non-defining relative clauses.
Who	andwhich	are used in non-defining relative clauses.

Did you know?

 In defining relative clauses, relative pronouns can be omitted if they are followed by a noun or pronoun. If relative pronouns are followed by a verb, they must be kept. Study the following examples:
 This is the car (that) I want to buy.

I want to buy a bag that is made of canvas.

omission is not possible

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- Use a relative pronoun to join each of the following pairs of sentences. Indicate when the pronoun can be omitted.
- a) She is the girl.

She adopted the stray dog.

She is the girl who/that adopted the stray dog.

b) Do you remember the protesters?

We met the protesters on our way to San Jose.

Do you remember the protesters (who/that) we met on our

way to San Jose?

c) The battery was rechargeable.

I bought the rechargeable battery.

The battery (that) I bought was rechargeable.

d) He is a biologist.

He works for an NGO.

He is a biologist who/that works for an NGO.

4. What is true about the sentence in the following cartoon?



- a) () It's a non-defining relative clause.
- b) () The relative pronoun that's been omitted is
- c) () The relative adverb that's been omitted is
- d) (<) The relative pronoun that's been omitted is either that or which.
- e) () No relative pronouns have been omitted.

5	Fill in	the	hlanks	with	the	words	listed	in	the	hov	hel	rw.
IJ.		une	DIGHTS	WHILL	une	WUIUS	IISIEU	1111	ure	LIUX	uei	IJΝ

who		whom		where		when
	why		whose		which	

- a) This tree is 100 meters tall, which is taller than the building I work in.
- b) I want to live in a city ______ nature and development walk hand in hand.

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c)	We want to know the trash cans all around		why	you threw that plastic bag on the floor when there are
d)	The dayw	hen	humans tru	ly realize that nature is finite may be too late.
e)	I have never met anyt	oody	who	visited the Guaíra Falls when they existed.
f)	I want to buy a car _	W	hose	CO ₂ emission is insignificant.
•	The person	whom	you me	et last night is the person responsible for the environmental policie

- 6. Read the following sentences and insert commas where necessary. Herome com os aumos a rormação de non-derning relative clauses e o uso de virgulas.
 - a) The trees that are being cut down take years to grow.
 - b) The woman who threw paper on the floor got called out. The one who picked it up and threw it into the trash can was applauded by passersby.
- c) My brother, who studies environmental engineering, belongs to an NGO that plants trees on weekends.
- d) The car which emits a lot of CO2 into the atmosphere is the old one.
- e) Let's look at pictures of the Guaira Falls, which were drowned in 1982.
- f) He's going camping with Sandy, who has nature on the brain.
- 7. Use the relative pronouns in brackets to write sentences containing non-defining relative clauses.
- a) Maria took a 45-minute shower today.

The fact that Maria took a 45-minute shower today made me very unhappy. (which)

Maria took a 45-minute shower, which made me very unhappy.

b) Paula is using rainwater to wash the sidewalk.

Paula is very conscientious. (who)

Paula, who is very conscientious, is using rainwater to wash the sidewalk.

c) My father is an environmental engineer.

He lives in Rio de Janeiro. (who)

My father, who lives in Rio de Janeiro, is an environmental engineer.

d) Marcos has finally understood the consequences of global warming.

His house was blown away by last week's tornado. (whose)

Marcos, whose house was blown away by last week's tornado, has finally understood the consequences of global warming.

e) Roberta has been educating the people of our city about water conservation for 15 years.

I had the pleasure to meet her last month. (whom)

Roberta, whom I had the pleasure to meet last month, has been educating the people of our city about water conservation for 15 years.

f) There is a spare bicycle in the garage.

You can use the spare bicycle to go to work. (which)

There is a spare bicycle in the garage, which you can use to go to work.

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