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## Burping cows and sheep harm the environment

URL: http://www.breakingnewsenglish.com/0707/070711-greenhouse\_gas.html

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#### THE ARTICLE

#### **Burping cows and sheep harm the environment**

Scientists are making cows and sheep scapegoats for a small part of global warming. There are new reports that methane gas produced from the animals burping and flatulence could be more hazardous to the environment than four-wheel-drive cars. Experts claim cows are responsible for about three per cent of Britain's greenhouse gases. Michael Abberton of the Institute of Grassland and Environmental Research said the average cow or bull belches out about 100 to 200 litres of methane each day, a lot more damaging than the carbon emitted by gas guzzling cars. Methane emissions from cattle account for a quarter of the gas in our air. In Britain, cows and sheep are the biggest single source of methane - a gas that is 23 times more harmful than carbon dioxide when it comes to global warming.

The race is now on to reduce burping and farting in cows and sheep. If scientists can achieve this, it could help Britain reach its commitments under the Kyoto agreement. Researchers are trying to find a new way to feed cattle and sheep which leads to less gas being produced. The key seems to be in developing new types of food that are easier for farm animals to digest. Scientists in Wales believe putting garlic in their food could reduce the impact on global warming by cutting the amount of gas produced by up to 50 per cent. Project leader Professor Jamie Newbold said: "Garlic directly attacks the organisms in the gut that produce methane." He is conducting tests to see if the garlic gives the animals bad breath or, more specifically, if it lead to garlic flavoured milk and meat.

#### **WARM-UPS**

- **1. COWS & SHEEP:** Walk around the class and talk to other students about cows and sheep. Change partners often. After you finish, sit with your original partner(s) and share what you found out.
- **2. CHAT:** In pairs / groups, decide which of these topics or words from the article are most interesting and which are most boring.

scientists / cows / sheep / burping / flatulence / experts / carbon dioxide / achievements / commitments / digestion / farm animals / garlic / bad breath

Have a chat about the topics you liked. Change topics and partners frequently.

- **3. BODILY NOISES & SMELLS:** In pairs / groups, tell each other stories about the following bodily noises and smells:
  - burping
  - farting
  - hiccups
  - sniffing

- sneezing
- snoring
- BO (body odor)
- bad breath
- **4. HEADLINES:** Talk with your partner(s) about these headlines. What are the stories behind the headlines? Do you think they'll come true? Change partners and share what you said and heard.
  - a) New pill stops burping and flatulence
  - b) Government to introduce fines for public burping and farting
  - c) Farmyard animal gases the key to future energy supplies
  - d) Garlic the secret key in preventing global warming
  - e) Riots in streets over garlic flavoured milk
  - f) Ants have the biggest carbon footprint
- **5. FLATULENCE:** Spend one minute writing down all of the different words you associate with flatulence. Share your words with your partner(s) and talk about them. Together, put the words into different categories.
- **6. QUICK DEBATE:** Students A think burping is worse than farting. Students B think the opposite. Change partners often. Share your findings.

# **BEFORE READING / LISTENING**

**1. TRUE / FALSE:** Look at the article's headline and guess whether these sentences are true (T) or false (F):

a.	Scientists say sheep and cows contribute to climate change.	T/F
b.	Gases from cows burping and farting harm the environment.	T/F
c.	Cows are responsible for 13% of the UK's greenhouse gases.	T/F
d.	The gas cows produce by burping is much more potent than CO2.	T/F
e.	Scientists are keen to make cows and sheep fart less often.	T/F
f.	Garlic may reduce the amount of gas from cows farting by 50%.	T/F
g.	Garlic prevents the production of a dangerous gas in the cow's gut.	T/F
h.	Scientists hope to produce lots of garlic flavoured milk.	T/F

#### **2. SYNONYM MATCH:** Match the following synonyms from the article:

1.	flatulence	a.	carrying out
2	hazardous	b.	sole
3.	claim	с.	perilous
4.	emitted	d.	obligations
5.	single	e.	accomplish
6.	achieve	f.	farting / wind
7.	commitments	g.	stomach
8.	impact	h.	argue
9.	gut	i.	effect
10.	conducting	j.	released

# **3. PHRASE MATCH:** Match the following phrases from the article (sometimes more than one combination is possible):

1.	making cows and sheep	a.	emitted by gas guzzling cars
2	more hazardous to the environment	b.	when it comes to global warming
3.	cows are responsible for about 3%	c.	gives the animals bad breath
4.	more damaging than the carbon	d.	on to reduce burping
5.	more harmful than carbon dioxide	e.	than four-wheel-drive cars
6.	The race is now	f.	under the Kyoto agreement
7.	help Britain reach its commitments	g.	the gut that produce methane
8.	new types of food that are easier for	h.	scapegoats
9.	Garlic directly attacks the organisms in	i.	of Britain's greenhouse gases
10.	tests to see if the garlic	j.	farm animals to digest

# WHILE READING / LISTENING

**GAP FILL:** Put the words into the gaps in the text.

## **Burping cows and sheep harm the environment**

Scientists are making cows and sheep for a	
small of global warming. There are new	single
reports that methane gas produced from the animals	59.0
burping and flatulence could be more to the	claim
environment than four-wheel-drive cars. Experts	
cows are responsible for about three per cent	part
of Britain's greenhouse gases. Michael Abberton of the	average
Institute of Grassland and Environmental Research said the	
cow or bull belches out about 100 to 200 litres	comes
of methane each day, a lot more damaging than the carbon	ccanagaata
emitted by gas cars. Methane emissions from	scapegoats
cattle account for a quarter of the gas in our air. In Britain,	guzzling
cows and sheep are the biggest source of	
methane - a gas that is 23 times more harmful than carbon	hazardous
dioxide when it to global warming.	
The race is now on to burping and farting in	
cows and sheep. If scientists can this, it could	specifically
help Britain reach its commitments under the Kyoto	
agreement. Researchers are trying to find a new	achieve
to feed cattle and sheep which to	amount
less gas being produced. The key seems to be in developing	477764776
new types of food that are easier for farm animals to	leads
Scientists in Wales believe putting garlic in	
their food could reduce the impact on global warming by	reduce
cutting the of gas produced by up to 50 per	organisms
cent. Project leader Professor Jamie Newbold said: "Garlic	J
directly attacks the in the gut that produce	digest
methane." He is conducting tests to see if the garlic gives	14/01/
the animals bad breath or, more, if it lead to	way
garlic flavoured milk and meat.	

# **LISTENING**

Listen and fill in the spaces.

#### **Burping cows and sheep harm the environment**

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global warming. There are new reports that methane gas produced from the
animals burping and flatulence to the environment
than four-wheel-drive cars. Experts claim cows are responsible for about
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organisms methane." He is conducting tests to see if
the garlic gives or, more specifically, if it lead to
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# AFTER READING / LISTENING

**1. WORD SEARCH:** Look in your dictionaries / computer to find collocates, other meanings, information, synonyms ... for the words 'cow' and 'sheep'.

cow	sheep

- Share your findings with your partners.
- Make questions using the words you found.
- Ask your partner / group your questions.
- **2. ARTICLE QUESTIONS:** Look back at the article and write down some questions you would like to ask the class about the text.
  - Share your questions with other classmates / groups.
  - Ask your partner / group your questions.
- **3. GAP FILL:** In pairs / groups, compare your answers to this exercise. Check your answers. Talk about the words from the activity. Were they new, interesting, worth learning...?
- **4. VOCABULARY:** Circle any words you do not understand. In groups, pool unknown words and use dictionaries to find their meanings.
- **5. TEST EACH OTHER:** Look at the words below. With your partner, try to recall exactly how these were used in the text:

small part	• race
<ul> <li>hazardous</li> </ul>	<ul> <li>agreement</li> </ul>
<ul> <li>three per cent</li> </ul>	• feed
• guzzling	• garlic
• source	• gut
23 times	• milk

#### STUDENT BURPING & FARTING SURVEY

Write five GOOD questions about BURPING and FARTING in the table. Do this in pairs. Each student must write the questions on his / her own paper.

When you have finished, interview other students. Write down their answers.

	STUDENT 1	STUDENT 2	STUDENT 3
Q.1.			
Q.2.			
Q.3.			
Q.4.			
Q.5.			

- Now return to your original partner and share and talk about what you found out. Change partners often.
- Make mini-presentations to other groups on your findings.

#### **DISCUSSION**

#### STUDENT A's QUESTIONS (Do not show these to student B)

- a) What did you think when you read the headline?
- b) Do you think the world's animals pose a threat to our environment?
- c) What action do you think governments should take to reduce the levels of burping and flatulence in cows and sheep?
- d) Do you think bodily gases from people also need reducing?
- e) How much methane do you think you produce each day?
- f) Do you think we could use the methane from cows and sheep to solve some energy problems?
- g) Should there be ads to make people aware of this problem?
- h) Do you think farmers should pay a burping and flatulence tax?
- i) What other animals do you think governments should look at?
- j) Do you think we should be vegetarian to cut down on methane?

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#### STUDENT B's QUESTIONS (Do not show these to student A)

- a) Did you like reading this article?
- b) Do you think scientists will win the race to reduce the methane?
- c) If Britain reduces levels of cow and sheep emissions, do you think it can relax on cutting down on industrial pollution?
- d) Do you think cutting methane emissions by 50% will help the environment?
- e) What other ways do animals harm the environment?
- f) Do you like garlic?
- g) Would you drink garlic flavoured milk if it helped protect the environment?
- h) Would you change your diet if it helped protect the environment?
- i) What do you think cows and sheep would think of this article?
- j) Did you like this discussion?

**AFTER DISCUSSION:** Join another partner / group and tell them what you talked about.

- a) What was the most interesting thing you heard?
- b) Was there a question you didn't like?
- c) Was there something you totally disagreed with?
- d) What did you like talking about?
- e) Which was the most difficult question?

# **LANGUAGE**

**CORRECT WORD:** Put the correct words from a-d below in the article.

# **Burping cows and sheep harm the environment**

	•	_		-				
warr anim envi resp Mich said each guzz in o meth	ning. nals l ronme onsibl ael A the a day ling c ur ai nane	are (1) There are burping and ent than following and ent than following are cowned are. Methane are gas that to global ware	new flatu fl	reports that ulence (2) neel-drive three per stitute of Gill belches ou naging that is and sheet times more	cars. If cent of cars. If cent of carsian of the cattle appeare	nane gas p be more (3) of Britain's of d and Enviro t 100 to 200 carbon emit ccount for a the biggest	greenh onment litres ted (5 quarte	d from the ous to the cows are ouse gases. Tal Research of methane gaser of the gase source of
scier (8) _ feed to be to (2 redu by u direct	cattle (9) 10) _ ce the ctly a lucting	s now (7) can achieve the Kyoto ag and sheep of and develop and Scientis e impact on of 50 per cent. ttacks the ( g tests to se cifically, if it le	e this preem which ping n sts in global Proje 11) _ e if tl	, it could ent. Resear leads to less warming bect leader F	help B chers a s gas b food theve put y cuttir Professo e gut t ves the	ritain reach re trying to being product are easienting garlic ing the amount are later produced animals (12)	its confind a ded. The for for for their of government of government (2)	ommitments new way to e key seems arm animals food could as produced said: "Garlic ane." He is
1.	(a)	make	(b)	making	(c)	made	(d)	makes
2.		are	(b)	_		could	(d)	is
3.		clam				reclaim		claim
4.	(a)	for		by		with	(d)	at
5.	(a)	for		with		by		in
6.	(a)	pollutes		rises		goes		comes
7.	(a)	on	(b)	off	(c)	in		out
8.	(a)	in	(b)	under	(c)	by	(d)	from
9.	(a)	throughout	(b)	across	(c)	down	(d)	in
10.	(a)	digest	(b)	digestion	(c)	digestive	(d)	digests
11.	(a)	organic	(b)	organs	(c)	organisms	(d)	organizers
12.	(a)	smell	(b)	bad	(c)	odor	(d)	fragrant

Burping cows and sheep harm the environment –  $11^{th}$  July, 2007

# **WRITING:** Write about cows for 10 minutes. Correct your partner's paper.

#### **HOMEWORK**

- **1. VOCABULARY EXTENSION:** Choose several of the words from the text. Use a dictionary or Google's search field (or another search engine) to build up more associations / collocations of each word.
- **2. INTERNET:** Search the Internet and find more information about cows and sheep. Talk about what you discover with your partner(s) in the next lesson.
- **3. ANIMALS:** Make a poster showing how different animals might be contributing to climate change. Show your poster to your classmates in the next lesson. Did you all find out similar things?
- **4. MAGAZINE ARTICLE:** Write a magazine article about the effects of cows and sheep burping and being flatulent. Discuss whether the carbon created by cows and sheep should be reduced.

Read what you wrote to your classmates in the next lesson. Which article was best and why?

**5. LETTER:** Write a letter to a farmer. Ask him/her three questions about cows and sheep burping and farting. Give three suggestions about how to reduce methane levels in farm animals. Read your letter to your partner(s) in your next lesson. Your partner(s) will answer your questions.

#### **ANSWERS**

#### TRUE / FALSE:

a. T b. T c. F d. T e. T f. T g. T h. F

#### **SYNONYM MATCH:**

1. flatulence farting / wind a. 2 hazardous b. perilous 3. claim c. argue 4. emitted d. released 5. sinale e. sole 6. achieve f. accomplish 7. commitments obligations g. 8. h. impact effect 9. gut i. stomach 10. conducting carrying out j.

#### **PHRASE MATCH:**

1. making cows and sheep scapegoats a. 2 more hazardous to the environment b. than four-wheel-drive cars 3. cows are responsible for about 3% c. of Britain's greenhouse gases 4. more damaging than the carbon d. emitted by gas guzzling cars 5. more harmful than carbon dioxide when it comes to global warming e. 6. The race is now f. on to reduce burping 7. help Britain reach its commitments g. under the Kyoto agreement h. 8. new types of food that are easier for farm animals to digest 9. Garlic directly attacks the organisms in i. the gut that produce methane 10. tests to see if the garlic j. gives the animals bad breath

#### **GAP FILL:**

#### Burping cows and sheep harm the environment

Scientists are making cows and sheep **scapegoats** for a small **part** of global warming. There are new reports that methane gas produced from the animals burping and flatulence could be more **hazardous** to the environment than four-wheel-drive cars. Experts **claim** cows are responsible for about three per cent of Britain's greenhouse gases. Michael Abberton of the Institute of Grassland and Environmental Research said the **average** cow or bull belches out about 100 to 200 litres of methane each day, a lot more damaging than the carbon emitted by gas **guzzling** cars. Methane emissions from cattle account for a quarter of the gas in our air. In Britain, cows and sheep are the biggest **single** source of methane - a gas that is 23 times more harmful than carbon dioxide when it **comes** to global warming.

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#### **LANGUAGE WORK**

 $1-b \qquad 2-c \qquad 3-d \qquad 4-a \qquad 5-c \qquad 6-d \qquad 7-a \qquad 8-b \qquad 9-d \qquad 10-a \quad 11-c \quad 12-b$