4. GM FOOD

b) Do you know of any resu Have you heard of these thi	onnect with DNA rms: gene, genomalits from genetic ngs? If not, can y	A? ne, DNA, RNA experimentation	A, genetic experiments, cloning? on?
Dolly the sheep The s	trawmato	The liger	clones
2. Vocabulary. Match the	se words and pl	hrases to their	r definitions
controversial	,	the top prize in	n a competition
to modify something			ells you what something is
technical			e disagreement
a label		connected to s	<u> </u>
regulations	,	to change or a	lter something
a gold medal		laws or rules	2
3. LISTENING ^{2.} Section 1. that has come from the mo		-	talking about an abbreviation

- that has come from the modern science of genetic engineering.
- a) What is the abbreviation? ____ b) Which two things can the abbreviation stand for? - genetically modified

- genetic modified

- genetically modification
- genetic modification
- c) Which of the words is: a noun, an adjective, an adverb?
- 4. Read these statements and try to make a guess: Are they true or false? Listen again. Are the following statements are true or false, according to Professor Crystal? If they are false, say what is true.

a) GM food first appeared around 1995	T/F
b) People were happy to accept GM food	T/F
c) GM food is not controversial now	T/F

- **5.** GM foods are controversial. Special regulations were introduced. What do you think food producers and restaurant owners had to do?
- a) Not sell or use GM foods
- b) State clearly when they used GM foods
- c) Have a license to use GM foods

Listen to Section 2 of the talk and check your ideas. Were you correct?

6. Are the following sentences true or false? Listen and check.

a) Professor Crystal talks about restaurant, café and bar owners	T/F
b) You might read a notice about GM foods in a restaurant	T/F
c) Everyone knows what GM means	T/F

7. READING. Look at the tapescript and find words or phrases that mean he same as these words (synonyms):

- a) changed or modified (Section 1) -
- b) meet or come across (Section 1) -
- c) from that time (Section 2) -
- d) kinds or types (Section 2)-

Listening Section 1

In the mid-1990s there was a new big, controversy that came in, wasn't there, about genetically modified foods: foodstuffs containing genetically altered plant or animal material. And it wasn't long before an abbreviation came along to summarise all these: genetically modified – G.M. or "genetic modification". Now that's a pretty technical abbreviation; you might not expect to encounter it very often, but actually, you do. Because it was controversial at the time and people didn't know whether to put this stuff into their foods or not (and it still is controversial), you began to see it on signs –

Listening Section 2

Because it was controversial at the time and people didn't know whether to put this stuff into their foods or not (and it still is controversial), you began to see it on signs – especially after 1996, when the food labelling regulations came in, and they applied in Britain in, 1999 I think it was – and from that point on, people had to say, if you were a restaurant owner or a café owner, you had to say whether your foods had G.M. in them or not – and so you walk into a restaurant these days, and you might well see a sign on the wall saying "no G.M. foods here" or "the following foodstuffs have G.M. products inside". And people I've often asked them often asked you know, what do you think G.M. means? And they guess all sorts of things. Some people have told me it means "good morning food". Somebody else told me it was a "gold medal" food. Well – it doesn't mean any of those things. It means "genetically modified", that's all!



8. SPEAKING. Work in small groups. Discuss the following questions³:

- What do you think about GM vegetables? Is it better to use natural food although it might not produce as much or should we use GM crops?
- What do you think about GM farm animals? Would you eat pork from a GM pig? What do you think about scientific testing on animals?
- What are the possible advantages and disadvantages of GM food? (think about nature and the environment, trusting science, private companies, farmers, pesticide, consumers).
- What is the situation with regard to GM food in your country? Is it a controversial topic? Can farmers produce GM crops? Is your food labelled to tell you about the GM content?
- Do you ever read labels on food packaging? Are you interested in knowing the chemical composition of our food? Do you care if it is a local product?
- Have you ever bought organic food? Why? Why not? Which kind?
- Do you think pets should be cloned? Why or why not? Would you like to have a clone of your pet?
- What do you think of genetic experiments and their results (Dolly the sheep, the liger, strawmato...)? What ethical problems are connected to genetics?
- Do you think people should be allowed to clone people or organs of people? Why?
- If you could copy your brain for future generations, would you?
- Can you imagine some other possible uses of genetic experiments in the future? Give examples.

Useful phrases for argumenting:⁴

The first thing to be considered is ...

It is a fact that ...

There is no doubt that ...

One of the main arguments in favour X is that ... against

Different points of view:

While it is true to say that ...

On the other hand, ... but

however ...

It is not always the case that ...

On the contrary, ...

It is often suggested that ...

This (question) can be looked at from several

points of view. Firstly ...

Opponents of ... take a very different view.

This (problem) should be considered in

relation to ...

It can be examined in terms of ...

... must be taken into account ...

It depends. It depends on ...

Agrement/disagreement:

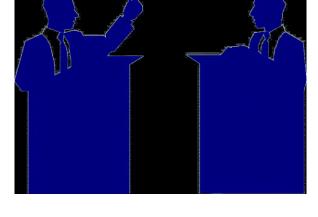
I agree with X when he says that ...

I disagree with X when he says that ...

Conclusions

in conclusion in brief
to conclude to summarize
to sum up briefly altogether
... but however

overall thus then finally therefore in addition



9. LANGUAGE: At	breviations.			
Science and technol language. Do you re a) How are the follo	cognise these abbr	eviations?		
LASER	CD	D	V D	VHS
RADAR	EMAIL	SC	CUBA	www
b) Look at these org What are they respo Can you say what es Example: NATO stan	onsible for? What on the seach letter in these a	do they do? abbreviations	s stands for?	
ВВС	CNN	UN	IBM	NATO
10. These abbreviat What is unusual about the correct forn genetically modified	out <u>GM</u> ? 1 of GM in the sent		·	
a) Our essay title is, '	Is		a go	ood thing for human kind? flour. wn more easily.
b) I don't want bread	which is made from	n	111	flour.
d) I think		FIC	e could be gro	wil more easily.
e) If a farmer uses		seed	ls he must tell	red, after more tests. The government officials.
	ome across the abb			owsing the Internet?
FAQ comes from th It is not the name of This is the way abbi	an organisation o	r company.		y are created.
Look at the example				
BDC badly driven ca	•	, ,		
VUL very useful less	on RAQ rarely	asked questi	on	
Look at the languag adverb adjective no				
	estion			
modifier adjective n				
very useful le	esson			

Now, try to create your own new abbreviations. Think about common things in your life.

very

For more abbreviations used for e-mail or SMS writing visit http://www.sharpened.net/glossary/acronyms.php

12. HOMEWORK⁵

Word-formation (Slovotvorba – změna slovních druhů) - SUFFIXES (Přípony):

Nouns (n -podstatná jména): - ment, - ness, - tion, - - ity, - ance, - ist, -er

(replacement, richness, formation, flexibility, assistance, chemist, fighter)

Adjectives (adj - přídavná jména) - able, -ible, -ine, - ous, - ic, -ing, -ed

(countable, flexible, saline, famous, toxic, interesting, prepared)

Verbs (v - slovesa): - ify, - ize, - ate, - en

(intensify, minimize, activate, frighten)

Adverbs (adv - příslovce): - ly, - ally

(quickly, technically)

Ovšem často jsou změny složitější: např. long (adj) – length (n)

Někdy u určitého slovního druhu není žádná přípona – např. profitable (adj) - profit (n)

Někdy nemá příponu žádný slovní druh (tzv. konverze - stejné slovo pro více slovních druhů)

Např. a stone bridge – a bridge stone – to stone somebody stone – adj / n / v

EXERCISES:

a) Decide if the words in bold are used to fulfil the function of a verb (v), noun (n) or adjective (adj).

Examples: Number the sentences from one to five. (v)

I can't remember your phone **number**. (n)

There is a **number** plate at the back of the car. (adj.)

- 1. The car has an excellent **design**.
- 2. Henry's father is a **design** specialist.
- 3. I'm afraid I cannot **control** my life.
- 4. There is a **control** at the top of the machine.
- 5. Press the **control** key.
- 6. I **study** chemistry.
- 7. The latest **study** shows that the quality of water in our rivers is getting better.

Complete the chart below: b)

Noun	Adjective	
1. similarity	similar	
2.	elastic	
3.	prepared	
4. conductive		
5.	important	
6. hardness		
7.	fragile	

c)	Now	use the r	ight	for	m o	f th	e w	ord fron	n exerc	ise c) ir	a sente	ence.4
Exam	ple:											
1	T 7	7	^	1 .	• 7	• .		7	1			

7	1	17		,	/- /	• •	• • •	•	,		,
•		V A1	I C C I I I	$\alpha m m m m$	tina	CIMII	APITAL	11/1	CILCL	i ovamn	വര
•		, (),	ı can	alvvavs	I LILLO	Stritt	unt	LIL	SIACE	i exampi	ES.

- 2. When producing swimsuits, of material is needed.
- 3. Teachers reported on poor of students for the tests.
- 4. Metals are known for their high electric
- 5. This is a very subject.
- 6. It was very to pass all my exams.
- 7. Human bones are very

d) Read the text and then write the correct form of the word in CAPITALS to complete the gaps.

Human Fetal Stem Cell Therapy

Human Fetal Stem Cell Therapy is a medical	
during which Human Fetal Stem Cells	TO TREAT
are transplanted into a patient. These building	CELL
blocks areadministered intravenously and	USUAL
subcutaneously (under the skin). It is a procedure,	PAIN
which takes place in one hour, and has no	APPROXIMATE
negative side	EFFECTIVE
The Fetal Stem Cell Therapy out, detects and then	SEARCH
attempts to repair any damage or	DEFICIENT
which is discovered. It also releases factors that	GROW
the body's own repair mechanisms.	STIMULATION
Medra's Medical William C. Rader, MD.	TO DIRECT
has over one thousand patients with Human	TREATMENT
Fetal Stem Cells, children and adults	INCLUSIVE
suffering from many of mankind's most	DEVASTATION
diseases, some of which up until had been	RECENT
considered to be untreatable.	

Sources: 1,,3 Available at http://iteslj.org/questions/

Available at

http://www.bbc.co.uk/worldservice/learningenglish/radio/specials/1728 uptodate/page5.shtml

⁴ Adapted from Oreská, Alžbeta. *Activity book English for chemists*.. Bratislava: STU, 2005... Lesson based on BBC Learning English.