10. FUTURE RESEARCH

1. Speaking: The following is a list of modern technological inventions. Which of them do you find most useful and why? Which of them is NOT important for you? Can you imagine your life without them?					
cell phone television	computer	the Internet	credit card	airplane	your idea
2. Speaking: Work in each of the areas at d Example: I think that i	ifferent point	s in the future	e. Write your	_	-
	2015	205	50	2200	
Chemistry					
Medicine					
Space					
Computers					
3. Now regroup and of Which of them is real Then choose the most LISTENING – THE Tocabulary. Do you diagnosis (n) – diagnosis allergy reaction (adj+n present in (adj + presource (n) – zdroj extract (v) – získat, extechnological advances	listic or unrea t interesting id FUTURE OF know how to p za a) – alergická r ep) – přítomný trahovat	llistic? dea and repor ALLERGY I bronounce the eakce	RESEARCH purify (v) – v reliable methorelevant (adj) constituent patool (n) – nás	e class. (From Eurone yčistit, purifiko od (adj+n) – sp – relevantní, z arts (adj+n) – sl	ovat oolehlivá metoda úsadní
4. Watch the beginning of the video (3.38-4.39) and answer these questions:					
a)What are the scientists in Vienna working on?					
b)What is the patient a	llergic to?				
5. Now watch the second part (4.39-5.04). Fill in the gaps in the transcript. With some allergens present in several					
6. Watch another part $(5.04-5.53)$ In Vienna, there is a library of the most common allergens in Europe. Circle the allergens mentioned in the video.					
apple, pear, hazelnut, peanut, coconut, mustard, sesame seed, potato, celeriac, cucumber					

7. Watch the rest (5.53-6.46) and explain: What is the future of allergy research?

ARTICLE: CURRY INGREDIENT FIGHTS CANCER

8. Vocabulary. Do you know these words? compound (n), protein (n), effects (n), determine (v), rate (n), prevent (v), reduce the risk (v+n)				
New vocabulary interfere (v) (with cancer cells) – narušit (rakovinné buňky) likely (adj - pravděpodobný spread (n) – šíření cell (n) – buňka treat (v) something with something - léčit dose (n) - dávka	suppress (v) - potlačovat conclude (v) - dojít k závěru potent (adj+n) – účinný, mocný induce (v) - vyvolat investigation (n) – výzkum, vys clinical trial (adj+n) - klinická	šetřování		
9. Read the text quickly and answer this q What types of cancer are mentioned in th				
10. Fill in the table. Then ask and answer	questions in pairs. E.g. Where wa	s the research done		
Name of Compound:				
Compound Found in:				
Research Done at:				
Research Lead by:				
Research Reported in:				
11. Comprehension – Answer these questia) How does the compound fight cancer?b) Have there been any tests done on people				
c) Does the spice reduce cancer risk in people	le?			
12. Fill in the gaps in the summary: The present article is titled				
It deals with a substa				
The name of the substance is				
have shown that this substance made				
destruct in a process known assubstance helped stop the spread of				
mice. So far the effects of curcumin have been				

_____ are planned.

Curry Ingredient Fights Cancer³

WASHINGTON (Reuters) -- The compound that makes curry yellow could help

fight skin cancer, U.S. researchers say.	
They said curcumin, found in the spice turmeric, interferes with melanoma cells.	2
Tests in laboratory dishes show that curcumin made melanoma skin cancer cells more likely to self-destruct in a process known as apoptosis.	3
The same team has found that curcumin helped stop the spread of breast cancer tumor cells to the lungs of mice.	4
Bharat Aggarwal of the Department of Experimental Therapeutics at the University of Texas M.D. Anderson Cancer Center in Houston and colleagues treated three batches of melanoma cells, known as cell lines, with curcumin at different doses and for varying times.	5

The curcumin suppressed two proteins that tumor cells use to keep themselves immortal, the researchers write in next month's issue of the journal Cancer.

"Based on our studies, we conclude the curcumin is a potent suppressor of cell viability and inducer of apoptosis in melanoma cell lines," Aggarwal's team wrote.

"Future investigation to determine the effects of curcumin in animal models of melanoma and clinical trials are planned."

Earlier research has shown that curcumin, which acts as an antioxidant, can help prevent tumors from forming in the laboratory.

Aggarwal said people who eat plenty of turmeric have lower rates of some cancers, although the spice itself has not been shown to reduce cancer risk in people.

10

7

8





Curcumin: the substance, the plant: Curcuma longa L

and the spice

13. DISCUSSION: Talking about science and research

Read these questions. Make sure you understand all of them. You can consult their meaning in pairs:

- a) Which invention/discovery would you most like to be invented/discovered in the future?
- b) "Science is more important than religion in today's world." Do you agree?
- c) Can you imagine yourself working as a scientist?
- d) Are there more men scientists than women scientists in your country? If so, why?
- e) Do you think that in the future science will depend more on computers?
- f) Do you think using cell phones too much is bad for our physical or mental health? Why?
- g) Do you think modern technology reduces or increases stress? Why?
- h) What do you think of scientific tests on animals?
- i) Has science and technology changed society for the better or for the worse? Give examples.

Now discuss your responses to these questions in small groups.

You can use some of these sentences to express agreement or disagreement:

Agreeing with an Opinion: ©	Disagreeing with an Opinion: 😂
My view about this is positive.	I think this idea is impossible/impractical.
I agree with this idea.	I don't agree with this idea.
I agree completely with this idea.	I'm not sure that I agree with this idea.
I agree partially with this idea.	I think this idea is possible, but
This idea is absolutely right.	This idea is absolutely wrong.
I think this idea is good.	I think it is a bad idea.

It depends. It depends on ...



14. HOMEWORK. Circle the synonym of the word in *italics*.

a. physical

1. Cocaine has *physiological* as well as psychological effects.

b. mental

2.	. Exercise is <i>beneficial</i> for a healthy a. dangerous b. go		
3.	. The accident occurred because the a. arrested b. dı		
4.		ration of the body, eakening	
5.		our teeth. armful	
2.	. Cigarette smoking is so <i>addictive</i> , a. habit forming b. un	that many people cannot give it up. healthy	
3.	. She was lonely and suffered from a. sadness b. dis	<u> </u>	
4.	a. ease b. wo	*	
5.	. Poor physical condition will make a. sensitive b. res	you more <i>susceptible</i> to illness.	
6.	a. diseases b. org	ith antibiotics. ganisms	
7.	c. Coffee <i>stimulates</i> the nerve center a. quiets b. ex		
8.	a. fear b. fee		
9.	. He retired from his job when he do a. long lasting b. br		
10	0. The needle was sterilized before the <i>injection</i>.a. insertion b. removal		
11	 The mountain climbers suffered fr a. fatigue b. hu 	om exhaustion when they reached the top.	
12	2. AIDS is a <i>fatal</i> illness for everyon a. deadly b. mi		
13	3. To lose weight, he took pills to <i>sup</i> a. release b. res	<u> </u>	
14	4. Human beings have little <i>tolerance</i> a. fear of b. res	e for extremes in temperature.	
Sources	³ Available at http://www.lookingglassnews.g	v=3zrVqwV29V8_Accessed November 23th 2010. org/viewstory.php?storyid=1448 _ Accessed December 11th 2009. Jersey: Regents/Prentice Hall, 1989. Jordan, R. R. <i>Academic writing</i>	

Lesson adapted from Marie Sabolová.

Week 9 – Vocabulary (Future Research)

diagnosis (n)	diagnóza
reaction (n)	reakce
present in (adj+prep.)	přítomný v
source (n)	zdroj
technological advances (adj.+n.)	technologický pokrok
purify (v)	vyčistit, purifikovat
reliable method (adj.+n.)	spolehlivá metoda
relevant (adj.)	relevantní, zásadní
constituent parts (adj.+n.)	složky
tool (n.)	nástroj, přístroj
break down (v)	
isolate (v)	rozkládat, štěpit izolovat
analyze (v)	analyzovat
effect (n) determine (n)	účinek, efekt
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	určit
spread (n)	šíření hužko
cell (n)	buňka
treat (v) something with something	léčit (něco něčím)
dose (n)	dávka
suppress (v)	potlačovat
conclude (v)	dojít k závěru
potent (adj+n)	účinný, mocný
induce (v)	vyvolat
clinical trial (adj+n)	klinická zkouška
investigation (n)	výzkum, vyšetřování
clinical trial (adj+n)	klinická zkouška
My view about this is positive.	Mám na to pozitivní náhled.
I agree with this idea.	Souhlasím s touto myšlenkou.
I agree completely with this idea.	Naprosto souhlasím s touto myšlenkou.
I agree partially with this idea.	Částečně souhlasím s touto
	myšlenkou.
This idea is absolutely right.	Tato myšlenka je zcela správná.
I think this idea is good.	Myslím, že je to dobrá myšlenka.
I think this idea is impossible/impractical.	Myslím, že tato myšlenka je
	nemožná/nepraktická.
I don't agree with this idea.	S touto myšlenkou nesouhlasím.
I'm not sure that I agree with this idea.	Nejsem si jistý, zda s touto myšlenkou souhlasím.
I think this idea is possible, but	Myslím, že tato myšlenka je možná, ale
This idea is absolutely wrong.	Tato myšlenka je zcela špatná.
I think it is a bad idea.	Myslím, že je to špatný nápad.
It depends. It depends on	Jak kdy. Závisí to na
1. depends. 1. depends on	our ray. Duvisi to ila