

## Painkillers and pain

Topic/language idea: Painkillers and pain.

Class: Middle school/high school

Level: Intermediate/ upper-intermediate.

Time : 45 minutes

Aims:

- To learn about the difference between pain, hurt and ache
- To learn about acute and chronic pain
- To learn vocabulary connected with pain perception
- To learn about types and functioning of painkillers
- To look for specific information on the internet
- To read for specific information
- To transfer the information.
- To use web pages

CLIL: biology

Materials : included photocopies, access to the internet and personal computer, speakers.

STAGE	AIMS	PROCEDURE	CLASSROOM LANGUAGE	TIME	MATERIALS
Introduc-tion	To start the lesson	Check the register /check homework		1 min/ 6 min	
Warm –up activity	To provide students with introduction to the topic	Ask the students the difference between pain, ache and hurt	In English there are many words that get easily confused. Go to <a href="http://www.bbc.co.uk/worldservice/learningenglish/language/ask-aboutenglish/2010/03/100323_aae_sick_pain_page.shtml">http://www.bbc.co.uk/worldservice/learningenglish/language/ask-aboutenglish/2010/03/100323_aae_sick_pain_page.shtml</a> and read and listen about the difference between pain, hurt and ache.	5 min	Worksheet 1  Internet
The main part of the lesson	To learn about pain, acute and chronic pain and how we feel pain	Ask the students to look at exercise 2, try to elicit the answers before going on line.  Tell the students to check their predictions on the website.  Collect the answers as a class.	Go to <a href="http://www.nabd.org.uk/living/paigate.htm">http://www.nabd.org.uk/living/paigate.htm</a> and answer these questions:  Why do we feel pain?  What is the flight of fight syndrome?  What is acute pain?  • What is chronic pain?	7 min	Worksheet 1  Internet

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	To learn about pain perception and how the pain signal travels to the brain	<p>Ask the students to work in pairs.</p> <p>First ask the students to read about pain perception process and its stages.</p> <p>Get the answers as a class.</p> <p>Read how the signal travels to the brain , ask the students to recap the process in their own words.</p>	<p>Go to <a href="http://science.howstuffworks.com/life/inside-the-mind/human-brain/pain.htm">http://science.howstuffworks.com/life/inside-the-mind/human-brain/pain.htm</a> and find answers to these questions:</p> <ul style="list-style-type: none"> <li>• What is nociception?</li> <li>• What are the four steps of nociception process?</li> </ul> <p>Read how the pain signal travels to the brain:</p> <p><a href="http://science.howstuffworks.com/life/inside-the-mind/human-brain/pain2.htm">http://science.howstuffworks.com/life/inside-the-mind/human-brain/pain2.htm</a></p> <p><a href="http://www.sciencebuddies.org/science-fair-projects/project_ideas/Games_p016.shtml#background">http://www.sciencebuddies.org/science-fair-projects/project_ideas/Games_p016.shtml#background</a></p>	10 min	
	To learn about anomaly connected with pain perception	<p>Ask the students to find what congenital analgesia is.</p> <p>Ask the students to think of reasons why such a disease is dangerous .</p>	Find what congenital analgesia is and why it is dangerous.	3 min	
	<p>To learn about ways of coping with pain.</p> <p>To learn how painkillers work.</p>	<p>Ask the students to brainstorm ideas how to cope with pain like meditation, massage etc</p> <p>Ask the students to watch a film about painkillers and how they work.</p>	<p>How do we cope with pain? Do you know any methods ? Watch a short film about painkillers: <a href="http://ed.ted.com/lessons/how-do-pain-relievers-work">http://ed.ted.com/lessons/how-do-pain-relievers-work</a></p>	7 min	
	To learn about two types of painkillers, their functioning .	<p>Divide the class into two groups. Ask one group to search information about aspirin , the other about opiates. Monitor students work.</p> <p>Check the answers as a class, ask the groups to take notes.</p>	<p>There are two types of painkillers: opiates and aspirin based drugs. Complete the chart using the information on :</p> <p><a href="http://mentalfloss.com/article/18615/how-do-painkillers-find-kill-pain">http://mentalfloss.com/article/18615/how-do-painkillers-find-kill-pain</a></p> <p><a href="http://kidshealth.org/kid/talk/qa/ibupro.html">http://kidshealth.org/kid/talk/qa/ibupro.html</a></p> <p><a href="http://www.medicalnewstoday.com/articles/161255.php">http://www.medicalnewstoday.com/articles/161255.php</a></p>	10 min	
Wrap- up	To summarise the lesson	Ask the students to formulate five facts from today's lesson		3 min	

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Sources:

[http://www.bbc.co.uk/worldservice/learningenglish/language/askaboutenglish/2010/03/100323\\_aae\\_sick\\_pain\\_page.shtml](http://www.bbc.co.uk/worldservice/learningenglish/language/askaboutenglish/2010/03/100323_aae_sick_pain_page.shtml)

<http://science.howstuffworks.com/life/inside-the-mind/human-brain/pain.htm>

<http://science.howstuffworks.com/life/inside-the-mind/human-brain/pain2.htm>

[http://www.sciencebuddies.org/science-fair-projects/project\\_ideas/Games\\_p016.shtml#background](http://www.sciencebuddies.org/science-fair-projects/project_ideas/Games_p016.shtml#background)

<http://ed.ted.com/lessons/how-do-pain-relievers-work>

<http://mentalfloss.com/article/18615/how-do-painkillers-find-kill-pain>

<http://kidshealth.org/kid/talk/qa/ibupro.html>

<http://www.medicalnewstoday.com/articles/161255.php>