

## Optical illusion and our brain

Topic/language idea: Optical illusion and our brain

Class: Middle school/high school

Level: Intermediate/ upper-intermediate.

Time : 45 minutes

Aims:

- To learn about human eye
- To learn about how the human eye works
- To learn vocabulary connected with vision and human eye anatomy
- To learn about optical and visual illusions
- To read how mirage is created
- 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
Introduction	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 about the senses and our vision, if they know how we see.	How do you see? What do you know about the eye?	5 min	
The main part of the lesson	To learn about human eye, the brain and vision	Ask the students to sit in pairs and go online to watch an educational video about how the eye works.	How do we see? Go to <a href="http://www.childrensuniversity.manchester.ac.uk/interactives/science/brianandsenses/eye/">http://www.childrensuniversity.manchester.ac.uk/interactives/science/brianandsenses/eye/</a> to go on a journey inside the human eye.	10 min	Worksheet 1
	To learn about optical illusions	Reading comprehension done in pairs- ask the students to go online, read about mirage. When the time is up check the understanding.	What are optical illusions? What types of illusions do you know? Do you know any optical illusions that occur in the natural world? Go to <a href="http://science.howstuffworks.com/mirage2.htm">http://science.howstuffworks.com/mirage2.htm</a> and read about mirage. What is it and what causes it?	10 min	
					Internet

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	To learn about optical illusions and visual illusions	Still working in pairs students learn the difference between optical and visual illusions, how the brain works and real life examples of illusions.	Do you think that the optical illusions are caused by the eye or by the brain ? <a href="http://phys.org/news145621013.html">http://phys.org/news145621013.html</a> <a href="http://abcnews.go.com/Health/EyeHealth/optical-illusions-eye-brain-agree/story?id=8455573">http://abcnews.go.com/Health/EyeHealth/optical-illusions-eye-brain-agree/story?id=8455573</a>	10 min	
Wrap-up	To see some of the best visual illusions	Ask the students to go online and browse the sites looking at some of the best visual illusions.	Have a look at some of the best visual illusions: <a href="http://www.optics4kids.org/home/content/illusions/">http://www.optics4kids.org/home/content/illusions/</a> <a href="http://illusionoftheyear.com/2009/the-break-of-the-curveball/">http://illusionoftheyear.com/2009/the-break-of-the-curveball/</a> <a href="http://illusionoftheyear.com/">http://illusionoftheyear.com/</a>	5 min	Internet

Sources:

<http://www.childrensuniversity.manchester.ac.uk/interactives/science/brainandsenses/eye/>

<http://science.howstuffworks.com/mirage2.htm>

<http://phys.org/news145621013.html>

<http://abcnews.go.com/Health/EyeHealth/optical-illusions-eye-brain-agree/story?id=8455573>

<http://www.optics4kids.org/home/content/illusions/>

<http://illusionoftheyear.com/2009/the-break-of-the-curveball/>

<http://illusionoftheyear.com/>