

## Plant adaption

Topic/language idea: Plant adaptation.

Class: Middle school/high school

Level: Intermediate/upper-intermediate.

Time : 45 minutes

Aims:

- To learn plant and flower structure
- To learn about functions of different plant and flower parts.
- To learn vocabulary connected plant, flower structure.
- To learn about adaptation.
- To learn about plant adaptation to different environment.
- 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 to study the structure of a plant and a flower .  Check the answers as a class.	Use the pictures and the websites to answer the questions about the structure of a plant, flower and their parts function <a href="http://www.phschool.com/science/biology_place/biocoach/plants/basic.html">http://www.phschool.com/science/biology_place/biocoach/plants/basic.html</a> <a href="http://www.sparknotes.com/biology/plants/plantstructures/section5.rhtml">http://www.sparknotes.com/biology/plants/plantstructures/section5.rhtml</a>	10 min	Worksheet 1

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The main part of the lesson	To learn about adaptation and to find any examples of plant adaptation to their habitat	Ask the students to go online , watch a film and answer the questions.  Check the answers as a class.	What is adaptation? Can you think of any examples of plant adaptation ? What do plants adapt to ? Watch the film and answer the questions : <a href="http://studyjams.scholastic.com/studyjams/jams/science/plants/plant-adaptations.htm">http://studyjams.scholastic.com/studyjams/jams/science/plants/plant-adaptations.htm</a>	10 min	Worksheet 1  Internet
	To learn about tropical rainforest plants adaptation to their environment	Ask the students to work in pair, watch a film and complete the chart with the examples of plant adaptation. Check the answers as a class.	Watch a film <a href="http://www.youtube.com/watch?v=C1Ib0-BIBKU">http://www.youtube.com/watch?v=C1Ib0-BIBKU</a> and write down the examples of adaptation of the rainforest plants.	15 min	
Wrap- up	To see a correlation between adaptation ad evolution	To learn about Darwin's moth	Adaptation was also a vital concept in Charles Darwin's evolution theory. Look at the drawing of Angraecum sesquipedale orchid. Seeing the plant Charles Darwin predicted existence of a very specific insect. Can you think why ? <a href="http://blog.thaumatoigraphy.net/category/uncategorized/">http://blog.thaumatoigraphy.net/category/uncategorized/</a>  <a href="http://www.theguardian.com/science/lost-worlds/2013/oct/02/moth-tongues-orchids-darwin-evolution">http://www.theguardian.com/science/lost-worlds/2013/oct/02/moth-tongues-orchids-darwin-evolution</a>  <a href="http://cryptomundo.com/cryptozoo-news/darwins-xanthopa/">http://cryptomundo.com/cryptozoo-news/darwins-xanthopa/</a>	10 min	Worksheet 1  Internet

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Sources:

[http://www.phschool.com/science/biology\\_place/biocoach/plants/basic.html](http://www.phschool.com/science/biology_place/biocoach/plants/basic.html)

<http://www.sparknotes.com/biology/plants/plantstructures/section5.rhtml>

<http://studyjams.scholastic.com/studyjams/jams/science/plants/plant-adaptations.htm>

<http://www.youtube.com/watch?v=C1Ib0-BIBKU>

<http://blog.thaumatography.net/category/uncategorized/>

<http://www.theguardian.com/science/lost-worlds/2013/oct/02/moth-tongues-orchids-darwin-evolution>

<http://cryptomundo.com/cryptozoo-news/darwins-xanthopa/>