

Genetics

TOPIC : genetics, DNA, code, living organisms, protein, cloning

LEVEL : intermediate/ upper intermediate

Time : 45 minutes

Objectives:

- to learn or revise vocabulary connected with genetics
- to learn about genetics
- to develop reading, speaking and listening comprehension skills
- to enable students use the Internet to gather specific information

Language functions:

- to exchange ideas about DNA and genetics
- to understand listening material and a written text
- to communicate in English

CLIL: Biology, IT Technology

MATERIALS: worksheets, websites

For this lesson, you will need:

- Computer with Internet access

STAGE	AIMS	PROCEDURE	MATERIALS/ RESOURCES	TIME
WARM UP	<ul style="list-style-type: none">-to get students interested in the topic-to encourage them to work in pairs	PAIR WORK Speaking work in pairs. They are given a handout (worksheet 1) with some questions on genetics and genetic engineering. They take turns and ask each other questions. They are encouraged to ask follow up questions to get more details.	Worksheet 1	5 min
MAIN PART OF THE LESSON	<ul style="list-style-type: none">-to develop listening and reading skills-to learn about DNA and genes	LISTENING Sts are asked what a gene is. They are told they are going to watch and listen to a short video on a you tube channel which discusses a basic definition of a gene, shows what a gene looks like, what it is that genes actually code for, and the basic idea behind Genetically Modified Organisms. While listening, they are supposed to fill in some gaps (worksheet 2)	Worksheet 2 https://www.youtube.com/watch?v=5MQdXjRPHmQ	5 min

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	<ul style="list-style-type: none"> -to revise vocabulary - to revise basic knowledge about DNA and genetics 	ONLINE QUIZ Sts are asked to go to the following website: http://www.softschools.com/quizzes/biology/genetics/quiz2433.html and complete a quiz on genetics. After completing the task, they are asked to share their score with the rest of the class.	http://www.softschools.com/quizzes/biology/genetics/quiz2433.html	10 min
	<ul style="list-style-type: none"> - to develop reading comprehension, vocabulary, and summarizing skills - to enable sts use the Internet to gather information on the given topic 	WEBQUEST Each student receives a handout (worksheet 3) with a number of questions they have to complete and a list of websites they can visit to answer them. They are told that they can visit different websites as well. After accomplishing the task, students present their findings to the rest of their classmates.	worksheet 3 http://www.randolph.k12.nc.us/schools/serms/Teachers/cgales/Documents/genetics%20webquest.pdf	20 min
WRAP - UP/ CLOSURE	<ul style="list-style-type: none"> -to revise vocabulary which sts came across during the lesson 	WORDSEARCH PUZZLE Students get worksheet 4 with a word search featuring words related to genetics. If time does not allow to do it in the classroom, they will do it as their homework.	Worksheet 4	5 min

SOURCES:

<https://www.youtube.com/watch?v=5MQdXjRPHmQ>

<http://www.softschools.com/quizzes/biology/genetics/quiz2433.html>

www.busyteacher.com

http://www.esldiscussions.com/g/genetic_engineering.html

<http://www.randolph.k12.nc.us/schools/serms/Teachers/cgales/Documents/genetics%20webquest.pdf>