

## **Learning Design for: EUSID\_Romania\_LTTA2\_GMOs\_European Council Simulation**

### **Context**

Topic: BIOSAFETY OF GMOS - IMPACT OF GMOS ON PEOPLE'S HEALTH

Total learning time: 30 minutes

Designed learning time: 19 minutes

Size of class: 28

Description: This activity will allow students to be able to use appropriate vocabulary to identify and argue the potential benefits and risks of genetically modified food and the opportunity to argue and collect evidence to support the benefits or risks that surround the use of genetically modified corn. This activity is also designed to provide students with the opportunity to learn how to write in science, using scientific language in writing and discussion, and develop their speaking and listening skills.

Mode of delivery: Select a mode...

### **Aims**

By the end of this lesson, students will:

- Consider the prevalence of genetically modified seeds in the food supply.

- Use viewing skills and strategies to understand and interpret a video clip.

- Discuss the right of companies to patent genetic innovations.

- Evaluate how keeping seeds in the public domain could impact innovation in biotechnology.

- Determine the relationship between biodiversity and food security.

- Select the three most important benefits and/or controversies related to the use of genetically modified seeds and explain their significance in a position paper.

### **Outcomes**

Analysis:

Application:

Affective learning outcomes:

### **Teaching-Learning activities**

#### ***TALKING TO A SPECIALIST IN AGRICULTURE- THE IMPACT OF GMOS ON HEALTH***

*Read Watch Listen 9 minutes*

*28 students*

*Tutor is available*

*F2F*

Genetically Modified Foods, known as GMO's, are foods that have had their genes altered through science or genetic engineering, which is monitored through the EPA, the FDA and the USDA. Did you know that many of the foods found in our grocery stores contain at least one ingredient that has been genetically modified? Should we be informed as consumers when this process is affecting the foods we eat? Should genetically modified foods be labeled? There is a huge debate surrounding this dispute. How do your students weigh in on this topic?

Set

- Show the first time the questions in the film below asking students what they feel about GMOS. Most of them won't guess that they have all been genetically modified.
- What does genetically modified mean practically?
- share the film for the first time.

Procedure: students pay attention and take notes on the questions provided on film.

Conclusion: limited amount of information on the effect on health , and the need of stricter regulations on the topic. There is an unfounded bias toward the danger of GMOs even though there is scientific evidence that supports the safety and benefits of these organisms, so GMO education through schools will decrease this bias and promote the use of GMOs. With an increasing world population, there is an increasing demand for food. There is a shortage of farmland and without new production technology, an unmatched increase in food demand will raise food prices and cause food shortages. As a new production technology, GMOs are a viable answer.

### ***Application -game***

*Read Watch Listen 10 minutes*

*28 students*

*Tutor is available*

*F2F*

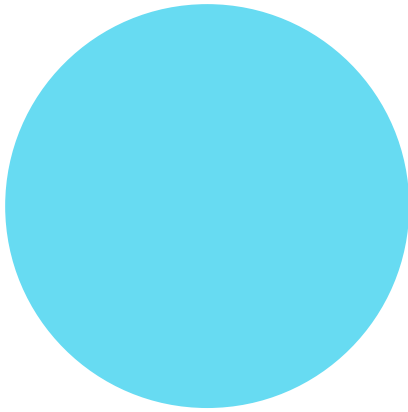
Procedure :Students download KAHOOT app taht will enable them to play a game on GMOS based on the interview watched before.

There are seven questions with the respective parts of film .

In the end the score is interpreted as feedback.

The winner (s) are rewarded.

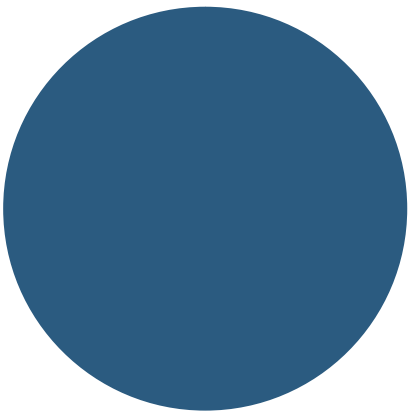
## Representations of the learning experience



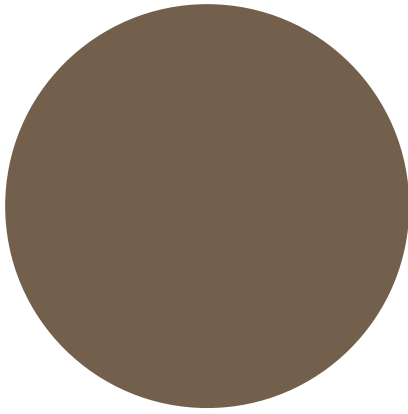
Learning through	Minutes	%
Acquisition (Read, Watch, Listen)	19	100
Investigation	0	0
Discussion	0	0
Practice	0	0
Collaboration	0	0
Production	0	0



	Minutes	%
Whole class	19	100
Group	0	0
Individual	0	0



	Minutes	%
Face to face	19	100
Online	0	0



	Minutes	%
Teacher present	19	100
Teacher not present	0	0