

Genetically Modified (Bioengineered) Food Writing Project Directions

Have your favorite foods been genetically modified (bioengineered)? You can investigate whether your favorite food products, like corn tortilla chips, are made from genetically modified crop plants.

Your project will be in the electronic form (pamphlet, advertisement, editorial, commercial, advertisement, etc.) of a persuasive writing **in support** of or **in opposition** to the **mandatory labeling** of genetically altered food **based on scientific evidence**.

But first, you will be researching genetically modified (bioengineered) foods. Use the links below to help guide your research. Be aware of “extremist organizations! Be sure to cite all sources. The questions below will help you focus your research.

1. What is the definition of a genetically modified organism/food? Give five examples of GMOs (bioengineered foods).
2. What are the areas of greatest promise in the modification of crop plants?
3. What is the greatest danger in the modification of crop plants?
4. What are the environmental advantages of genetically modified foods?
5. What are the environmental disadvantages of genetically modified foods?
6. What are the health benefits of genetically modified foods?
7. What are the health risks of genetically modified foods?
8. What are the economic consequences?
9. Who benefits from the economic consequences? Who could be harmed?
10. What is the impact of genetically modified foods on the average consumer?
11. Do consumers have a right to know if the food they are buying contain GMOs when they shop?

Make sure to include visual pictures in your brochure. You also need a map of where GM foods are grown. Your conclusion must state your opinion on GMOs and support your opinion with evidence.



Helpful Links:

The process of making GMOs

<http://science.howstuffworks.com/question148.htm>

Information on Rules and Regulations concerning bioengineered foods

<https://www.ams.usda.gov/rules-regulations/be>

<https://www.fooddive.com/news/inside-the-gmo-law-what-needs-to-be-labeled-and-why-it-matters/545120/>

<https://www.federalregister.gov/documents/2018/12/21/2018-27283/national-bioengineered-food-disclosure-standard>

Pros and Cons of GM foods

<https://www.tandfonline.com/doi/full/10.4161/21645698.2014.952204>

<http://www.saynotogmos.org/index.htm>

<http://science.howstuffworks.com/question148.htm>

https://geneticliteracyproject.org/2019/01/21/viewpoint-gmo-crops-are-key-to-sustainable-farming-why-are-some-scientists-afraid-to-talk-about-them/?gclid=EAlalQobChMIptfe5tC76AIVCtVkCh0OcA1vEAAYAiAAEgLpaPD_BwE

<https://www.scientificamerican.com/video/what-is-a-genetically-modified-food2013-07-24/>

https://www.youtube.com/watch?v=GIVnEY_1CSU

https://en.wikipedia.org/wiki/Genetically_modified_food

<https://www.nongmoproject.org/gmo-facts/>

List of bioengineered foods

<https://www.ams.usda.gov/rules-regulations/be/bioengineered-foods-list>



Genetically Modified (Bioengineered) Foods Writing Project Scoring Guide

Name _____

Indicators	Score	Comments
Project has clearly defined genetically modified organisms (GMOs).	/5	
Project has 5 GM foods and pictures that are clearly labeled.	/5	
Project has answered all of the questions concerning the pros and cons/advantages and disadvantages relating to GMOs and: <ul style="list-style-type: none">• modified crop plants.• environmental changes.• economic consequences.• human health.• impact on consumer.	/45	
Project has a conclusion with an opinion about GM foods and has evidence to support the opinion.	/15	
Project has been submitted in an acceptable electronic format.	/5	
Project is neatly produced with no spelling or grammatical errors.	/10	
Project is "eye-catching".	/5	
Project has a map that shows where GM foods are grown.	/10	
Total	/100	