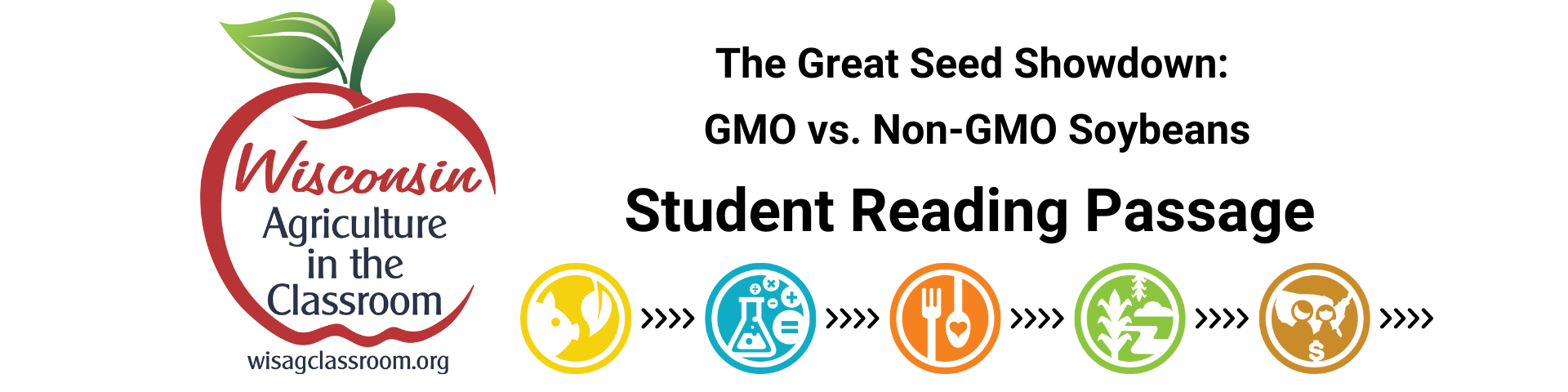
**GMO and Soybeans Student Reading Passage**

Soybeans are a type of crop that is grown in many places around the world. They are used for different things like making food for animals and making biodiesel [3]. In fact, soybeans are the most commonly-grown crop in North America [3]. But did you know that some soybeans are genetically modified?

Genetically modified soybeans, or GMO soybeans, are soybeans that have had their DNA changed using special techniques [1]. The first genetically modified soybeans were introduced in the United States in 1996 by a company called Monsanto [1]. Since then, GMO soybeans have become very popular, and now they make up 82% of all the soybeans grown worldwide [1]. One reason why farmers like to grow GMO soybeans is because they can use weed killers on their fields without damaging the soybean plants [1]. However, some people are concerned about the safety of GMO foods. But don't worry, scientific studies have shown that GMO foods are safe to eat [2]. In fact, GMO soybeans look and taste the same as regular soybeans, and they have the same nutritional value [2].

GMO soybeans have both benefits and drawbacks. On one hand, they can help farmers increase their crop yields and reduce the amount of pesticides they need to use [2]. On the other hand, the use of GMO soybeans has led to the rise of "superweeds," which are weeds that are resistant to weedkillers [3]. This means that farmers have to use even more weedkillers to get rid of these superweeds [3]. Additionally, some people are worried about the impact of GMO soybeans on the environment and on food safety [4]. There is still ongoing research and debate about these issues.

In conclusion, GMO soybeans are a type of soybean that has been genetically modified. They are grown in many places around the world and have both benefits and drawbacks. While GMO soybeans can help farmers increase their crop yields and reduce pesticide use, there are also concerns about their impact on the environment and food safety. Scientists are still studying and learning more about GMOs and their effects.

[1] Genetically modified soybean - Wikipedia

https://en.wikipedia.org/wiki/Genetically\_modified\_soybean

[2] Beans and Biotech: Why Soybeans Are the Stars of Genetically ...

https://foodinsight.org/soybeans-are-the-stars-of-genetically-modified-foods/

[3] The GMO High-Risk List: Soybeans

https://www.nongmoproject.org/blog/the-gmo-high-risk-list-soybeans/

[4] The study of the impact of genetically modified soybean imports on ...

https://www.metrology-journal.org/articles/ijmqe/full\_html/2021/01/ijmqe210006/ijmqe210006.html

[5] Soybean genetic transformation: A valuable tool for the functional ...

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3571417/

[6] Prevalence of Genetically Modified Soybean in Animal Feedingstuffs ...

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8009591/

**Multiple Choice Questions**

1. What is the main reason why farmers like to grow GMO soybeans?

A) GMO soybeans have a higher nutritional value than regular soybeans.

B) GMO soybeans taste better than regular soybeans.

C) Farmers can use weed killers on their fields without harming the soybean plants.

D) GMO soybeans require less water to grow compared to regular soybeans.

1. According to the text, what percentage of soybeans grown worldwide are genetically modified?

A) 10%

B) 50%

C) 82%

D) 100%

1. What is one concern that some people have about GMO soybeans?

A) GMO soybeans have a negative impact on wildlife populations.

B) GMO soybeans have a lower nutritional value than regular soybeans.

C) GMO soybeans taste different from regular soybeans.

D) GMO soybeans may have unknown effects on the environment and food safety.

**Short answer questions**

1. What are GMO soybeans?

2. When were the first genetically modified soybeans introduced in the United States?

3. What are some benefits and drawbacks of GMO soybeans?

**Reflection Questions**

1.How do you think GMO soybeans could impact the food you eat?

2. What are your thoughts on the use of GMO soybeans in farming?

3. Do you think it is important for scientists to continue researching GMOs? Why or why not?