

# Technology & Innovation

Plant Breeding

FOR STUDENTS

Ag for Life

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GET READY!

Watch this video:

[https://www.youtube.com/watch?v=q02g\\_OKTByM](https://www.youtube.com/watch?v=q02g_OKTByM)

**Guiding Questions:**

What is plant breeding?

How long do you think it could take to get the desired traits using this method?

Ag for Life

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## RESOURCE ROUND UP!

Check out this website and video from Bayer Crop Science:

<https://www.cropscience.bayer.com/innovations/seeds-traits/plant-breeding>

As you click through, think about and write down:

Where and when were the first genetically modified seeds created?

What colour were carrots before we bred them to be orange?

Which vegetables originated from mustard seeds?



How many years have we been breeding bananas?

**Explore these additional resources:**

<https://www.theglobeandmail.com/life/adv/article-advancing-consumer-understanding-of-modern-agriculture/>

<https://croplife.ca/facts-figures/gmos-in-canada/>

## **O** **OBSERVE RESULTS OF YOUR LEARNING!**

Think about what you have learned so far about breeding and fill out the chart on the next page.

	Year it Began	Picture of Plant	Other Crop Examples	Benefits
Cross Breeding				
Mutagenesis				
Transgenesis				
Genome Editing				



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## WHAT DID YOU LEARN?

How long have we been breeding and modifying plants for specific traits?

How are plants bred for specific traits benefiting: Environment, Farmers, Consumers?