



## Biotechnology Activity for Kids

### Biotechnology With Brussel Sprouts DIY

 Duration: **5-10 min**

 Difficulty: **Easy**

 Cost: **\$0 to \$10**

Learn how biotechnology can make Brussel sprouts taste good.

### Material List

- 1 Vial of PTC paper can be found online for a few dollars
- 1 Small Bowl of Brussel Sprouts

### Instructions

- 1 Taste a strip of PTC paper. Does it taste bitter or do you taste nothing at all? Write down your observations.
- 2 Ask some friends or family to do the same and see if they taste bitterness or nothing.
- 3 Go through the same process with tasting the Brussel sprouts. Are the results similar or different?

## How It Works

PTC paper contains a chemical that tastes bitter to some people, while others can't taste it at all. A very similar chemical is responsible for making Brussel sprouts taste bitter to some people. As we learned earlier in the lesson, biotechnology is when we use our knowledge of biological processes to solve problems. Currently, scientists are trying to use biotechnology to remove bitter chemicals from Brussel sprouts, so over time, biotechnology might make Brussel sprouts your next favorite vegetable!

