

## Objective

By the end of this lesson, you will have a better understanding of how technology influences food and its impact on society.

## Materials and Prep

- Internet access
- Computer or tablet
- Pen and paper

No prior knowledge is required for this lesson.

## Activities

- **Research and Report:** Choose a specific area of food technology that interests you, such as genetically modified organisms (GMOs), food processing, or agricultural advancements. Use the internet to research the topic and create a report summarizing your findings.
- **Virtual Field Trip:** Take a virtual tour of a food production facility or a high-tech farm. Look for videos or interactive websites that showcase the technology being used and how it impacts the food industry.
- **Experiment:** Conduct a simple experiment to demonstrate the use of technology in food preservation. For example, compare the shelf life of fresh produce versus canned or frozen produce. Document your observations and draw conclusions.

## Talking Points

- **Technology in Food Production:** "Did you know that technology plays a crucial role in modern food production? It helps farmers increase crop yields, improves food safety, and reduces waste."
- **Genetically Modified Organisms (GMOs):** "GMOs are plants or animals that have been genetically modified through biotechnology. They are designed to have specific traits, such as resistance to pests or increased nutritional value. However, GMOs are a controversial topic with both benefits and concerns."
- **Food Processing:** "Food processing involves transforming raw ingredients into finished food products. Technology is used to enhance flavors, extend shelf life, and improve food safety. However, some processed foods may contain additives or lose nutritional value during processing."
- **Agricultural Advancements:** "Advancements in technology have revolutionized agriculture. Farmers now use precision farming techniques, such as drones and GPS, to optimize crop growth. These advancements help conserve resources and make farming more efficient."
- **Impact on Society:** "Technology has greatly influenced our food choices and eating habits. Fast food, online food delivery, and meal kit services are all examples of how technology has changed the way we consume food. It has also made global food trade and distribution more accessible."