

# Challenge 10: Equitable Access to Safe Food

## Suggested Resources

### ARTICLES

United States Department of Agriculture. (2017, June 28). "Danger Zone" (40 °F–140 °F) [Website article]. Retrieved from <https://www.fsis.usda.gov/food-safety/safe-food-handling-and-preparation/food-safety-basics/danger-zone-40f-140f>

United States Environmental Protection Agency. (n.d.). *Reducing wasted food at home* [Website article]. Retrieved from <https://www.epa.gov/recycle/reducing-wasted-food-home#storage>

U.S. Food and Drug Administration. (2020, February 11). *Food and water safety during power outages and floods* [Website article]. Retrieved from <https://www.fda.gov/food/buy-store-serve-safe-food/food-and-water-safety-during-power-outages-and-floods>

### VIDEOS

Use your Internet browser to search for videos to show during class using the terms "how to keep food cold without electricity," "how to build a refrigerator," "how to make drawings to scale," "how to create an instructional manual," or "food engineer." Conduct this search prior to class to verify the content is appropriate for the class and the challenge.

### WEBSITES

Use your Internet browser to search for resources using the key terms "ways to reduce wasted food," "how do coolers work," "how to build a cooler," "best coolers for [YYYY]" where YYYY represents the current year, or "thermal performance comparisons of coolers."

#### **Instructables**

<https://instructables.com/>

Suggested search keywords: graph, temperature graph

#### **Sciencing**

<https://sciencing.com/>

Suggested search keywords: how to use a thermometer

#### **Texas Career Check**

<https://texascareercheck.com>

Suggested search keywords: food science technicians, food scientists and technologists

#### **United States Environmental Protection Agency (EPA)**

<https://epa.gov/>

#### **U.S. Food and Drug Administration (FDA)**

<https://www.fda.gov/>

#### **wikiHow**

<https://wikihow.com/>

Suggested search keywords: how to create a user manual

# Challenge 11: Let's Make Life Better

## Suggested Resources



### ARTICLE

U.S. Bureau of Labor Statistics. (2020, September 21). *What materials engineers do* [Website article]. Retrieved from <https://www.bls.gov/ooh/architecture-and-engineering/materials-engineers.htm#tab-2>



### VIDEOS

Use your Internet browser to search for videos to show during class using the terms “careers in materials science” or “materials engineering.” Conduct this search prior to class to verify the content is appropriate for the class and the challenge.



### WEBSITES

#### **American Chemical Society**

<https://acs.org/>

Suggested search keywords: materials science

#### **Harvard Materials Research Science and Engineering Center**

<https://mrsec.harvard.edu/>

#### **Science News for Students**

<https://sciencenewsforstudents.org>

Suggested search keywords: smart materials, materials engineering

#### **Texas Career Check**

<https://texascareercheck.com/>

Suggested search keywords: materials engineer, materials scientist