Journey 2050 Lesson 3: Water
Online Module

1. Begin the Journey 2050 Lesson 3: Online Module video (0:00-0:20). This video will guide you through the lesson.

2. Watch NASA's Show Me the Water video.

    a. *How much of Earth's water is in the ocean?*

    b. *What percentage of freshwater use goes to agricultural irrigation?*

3. Watch the Journey 2050: Water video

    a. *How is water used in agriculture?*

    b. *What methods do farmers use to irrigate their crops?*

    c. *What best practices can be implemented to use water more efficiently in agriculture?*

4. Continue the Journey 2050 Lesson 3: Online Module video (0:20-5:37)

5. Play Level 3 of the *Journey 2050 Sustainability Farming Game*. Continue the Journey 2050 Lesson 3: Online Module video (5:39-6:20) for instructions.
    - The game can be downloaded to devices from Google Play or the App Store. It can also be played online using a Firefox, Chrome, or Safari web browser.

6. Wrap-up. Continue the Journey 2050 Lesson 3: Online Module video (6:24-7:33). Answer the questions below and review the key points.

    a. *What were your limiting factors?*

    b. *Did you find it difficult to have enough water for your crops? How did weather impact your crops?*

    c. *What ripple effects did you notice from your investments?*

Key Points:

- Water is a natural resource critical to agriculture.
- Although the majority of the Earth is made up of water, only a small fraction is actually usable.
- Farmers improve their water efficiency by using water conservation practices and technologies such as irrigation (with moisture sensors), conservation tillage and riparian areas.
- Some regions of the world face greater threats to their water supply than others.

Additional Activities:

- Watch What is a Watershed? and Why Should You Care About Our Watersheds?
- Brainstorm ways you can conserve and protect water.
- Find a map of your local watershed and learn where water flows from and to in your area.
- Research which countries have the least and the most available freshwater. Discover what factors impact water availability and daily water use. Use the FAO website for resources.