Journey 2050 Lesson 2: Plant Health Online Module

- 1. Begin the Journey 2050 Lesson 2: Online Module video (0:00-5:44). This video will guide you through the lesson.
- 2. Watch the <u>Journey 2050: Nutrients</u> video.
 - a. What three primary nutrients are necessary for healthy plant growth and how can they be replenished?
 - b. How does a plant resist disease and pests?
 - c. What are "best management practices?"
 - d. What are the 4Rs?
- 3. Continue the Journey 2050 Lesson 2: Online Module video (5:53-12:34)
 - a. Why does soil matter?
- 4. Play Level 2 of the *Journey 2050 Sustainability Farming Game*. Continue the <u>Journey 2050 Lesson 2: Online Module video</u> (12:35-13:54) for instructions.
 - The game can be downloaded to devices from Google Play or the App Store. It can also be <u>played online</u> using a Firefox, Chrome, or Safari web browser.





agclassroom.org/elearning

- 5. Wrap-up. Continue the Journey 2050 Lesson 2: Online Module video (13:57-15:29). Answer the questions below and review the key points.
 - a. Which nutrient practice was best?

b. If nutrients were over or under applied, what impacts did you notice on crop yields, environment or economics?

c. How can farmers be sure they are applying nutrients in a sustainable way?

Key Points:

- Agriculture provides our food supply. Growing our food requires the use of nutrients, which must be returned to the soil through proper application in order to continue growing healthy crops.
- Crops grown in soil without proper nutrients are less healthy, less resistant to insects and diseases, and produce a less abundant harvest than crops grown in nutrient-rich soil.
- When plant health is managed using best practices farmers can be more successful in harvesting an abundant crop of healthy foods.

Additional Activities:

• Complete a <u>word search, crossword puzzle, or matching activity</u> to study the relevant vocabulary terms in the Journey 2050 program.



agclassroom.org/elearning