## FARMLAND: Family Farming- Virtual Learning AdaptionTarget Grade Level: 9th-12th Grade

## Full Lesson Plan: <https://www.iowaagliteracy.org/Article/FARMLAND-Family-Farming>

This document is meant for you, the teacher, to use to convert the lesson plan into a virtual learning module for your students. You can use the steps outlined below to create different elements of a Google Classroom or other online learning module. You can also send the steps directly to your students in a PDF, present them in a virtual meeting, or plug them into any other virtual learning platform you use. Find more virtual lessons here: [Virtual Learning.](https://www.iowaagliteracy.org/Tools-Resources/Other/Virtual-Learning)

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| Engage | Think about a garden- this can be a garden that you or a family member grows, or a school garden. Take out a piece of paper and answer the questions below about the garden. Take a picture of your answers and send them to your teacher. If you are not sure of an answer, do some research and make an informed guess. 1. How would you describe the garden?
2. What kinds of food are grown?
3. How big is the garden?
4. Where does the food go?
5. How much human labor is required?
6. How many meals can the garden provide a day? For how long?
7. Do you think that the garden is efficient?
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| Explore | Watch FARMLAND from 3:30-5:45. It is a documentary that will introduce you to different types of farming. Take notes on the key points of the clip and the topics and ideas that you are most interested in.* [FARMLAND Clip](https://tubitv.com/movies/460157/farmland)
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| Explain | Open this document and read the information and watch the videos on modern farming. Then, fill out the Venn Diagram on the next page comparing farming and gardening. To insert a text box, go to Insert> Drawing> New> Text Box. Make sure the document is turned in when you are finished. * [Modern farming document.](https://docs.google.com/document/d/1koTUjma1RhaAJGVSVrbPYqM5jV21_NUJaVJ1lTD_cSA/edit?usp=sharing)
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| Elaborate | Think about this: We live on a hungry planet, and with the world’s population predicted to reach 9 billion by the year 2050, producing enough food, especially protein, is a challenge for agriculture. A garden is an example of small-scale production; perhaps not the most efficient way of producing food. How do we scale that up to feed a world population? How do we ensure that the population’s nutritional needs are being met? Visit the linked FAO website to learn about feeding a changing world. Click on at least 3 of the blue boxes and report what you learned from each box to your teacher. * [FAO Sustainable Crop Production](http://www.fao.org/agriculture/crops/thematic-sitemap/theme/spi/en/)
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| Evaluate | Finally, you are going to write a one-page paper (single space) on growing food for a changing world. You may not have enough information from the links provided, so do some research! Some topics to cover in your paper:* Why are the food choices coming from a garden some of the healthiest choices for snacks and meals?
* How has mechanization changed the way we feed the world? How do you think it will continue to change?
* How are farms and gardens different/the same?

Turn your paper in when you are finished. |