## Father of the Green Revolution- Virtual Learning AdaptionTarget Grade Level: 7th grade, 9th-12th Grade

## Full Lesson Plan: <https://www.iowaagliteracy.org/Article/Father-of-the-Green-Revolution>

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 | Start by watching this TedEd talk on Nobel Prize Winners: [Nobel Prize Winners](https://www.youtube.com/watch?v=rXhpK_lhonA). |
| Explore | Using these three links, learn about the life and accomplishments of Nobel Prize Winner Norman Borlaug. Take notes on what you, the student, find. * [PBS Link](http://www.iowapbs.org/iowapathways/mypath/agricultural-pioneer-dr-norman-borlaug)
* [Nobel Prize](https://www.nobelprize.org/prizes/peace/1970/borlaug/acceptance-speech/)
* [Video](https://www.youtube.com/watch?v=m2TmEdiXTvc)
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| Explain | When you’ve done those tasks, describe what the “Green Revolution” was and what Dr. Borlaug’s role was within it. Be sure your response includes all of the terms below in a way which shows your understanding. Share your response with your teacher.* TERMS: Green Revolution, Hybrid Plant, GMO, Research Scientist, Developing Country, Famine
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| Elaborate | Now you will need to start research for your essay. Explore [reliable](https://www.thoughtco.com/gauging-website-reliability-2073838) and viable websites, articles, videos, etc. to construct an essay explanation that describes how genetic research can improve agricultural production.  |
| Evaluate | Finally, you will need to write the essay.* + Essay requirements:
1. Minimum of two-page essay (double spaced).
2. Include a short summary of Norman Borlaug’s work and what it meant for the areas in which he worked, and the pros-cons of the impact of his work.
3. Include at least one prediction of a problem that research scientists might be faced with in the future, based on the legacy of Norman Borlaug as well as modern and future food issues (population growth, hunger, malnutrition, etc.).
4. Include one paragraph outlining common concerns of these genetic technologies, and whether or not the student thinks they are viable concerns.
* All sources **must be** cited appropriately.
* Turn your essay in to your teacher when you are done.
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