## Lavender and Honey - Virtual Learning Adaption Target Grade Level: 3rd Grade

Full Lesson Plan: <https://www.iowaagliteracy.org/article/Lavender-and-Honey>

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 | Present this list of agricultural crops to students: Apple, Corn, Aronia Berry, Alfalfa, Raspberry, Soybeans, Black beans, Cotton, Cabbage, Hay, Sweet corn, Wheat, Lavender, Oats, Rosemary, Barley, Marigold, and Canola. Identify which crops are specialty crops or field crops. |
| Explore | Bees are ideal pollinators for flowers like lavender. Lavender in return produces a high amount of linalool – the chemical compound that makes flowers smell nice. The smell attracts bees. Lavender can bloom throughout the majority of the summer and provide pollen and nectar for the bees. This symbiotic relationship is mutually beneficial for both the lavender plants and for the bees. Watch this video on honeybees and lavender: <https://youtu.be/YVfdbjwFygc> |
| Explain | As bees are learning to find flowers that they can drink nectar and collect pollen, they create memories so they can remember where the flowers are. Bees don’t have brains like humans do. Their brains are very simple. But they can still create memories. Bee memory is largely affected by their genetics and epigenetics. Watch this video on bee research: <https://youtu.be/HDadnBWXyrQ> |
| Elaborate | How do bees communicate with other bees? Can one bee tell the rest of the hive where a new flower field is? Have students watch these video.   * <https://youtu.be/12Q8FfyLLso> * <https://youtu.be/PMOUaoQ_9aI> * <https://youtu.be/PRGc7skekMQ> |
| Evaluate | Write a short paragraph or a single sentence describing some simple directions. For example: “leave the classroom, turn left, walk 100 feet to the cafeteria.”  Develop a dance that would communicate those same directions (no words allowed!). Video yourself demonstrating your dance. Upload the video and share it with the teacher. |