

LESSON PLAN

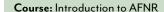
AFNR/ SEL

Developed with Alison Parrott, Agriculture Teacher — Otselic, New York FFA Advisor, Otselic Valley Central School District

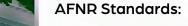
How can vertical farming help feed the world?

Volume 29 Middle/High School

Time: Approx. 1–2 days



Unit: Agriculture Sustainability





Materials list

- · Vertical farming article (See YouTube link in Step 1)
- · Highlighters
- Pen/pencil
- · Writing supplies or laptop with typing capabilities

Objective

Students will be able to complete the article about vertical farming in Tokyo and explain what they learned about vertical farming in paragraph format.

Activities

Step 1: Students will listen to the article on vertical farming in Tokyo on YouTube. This can be done independently, in groups, or as a class.

Link to video: https://www.youtube.com/
watch?v=qJMZRIRkZWs&feature=youtu.
be&fbclid=lwAR1pRirb-Rz1IU847V8bWXfH8Qs7K
F2netgkZFU1ie6urf-31E2PiJvyJSA

Step 2: As students watch the video, they will write down important information or notes on a separate piece of paper.

Additional option: Partner Highlighting Literacy Strategy–students independently highlight a certain number of facts in their notes (to work on only highlighting important information). Then, they team up with a partner (preferably with a different color highlighter) and compare the things they highlighted. If they have the same information highlighted, they leave it. However, if their partner has additional information highlighted that they do not, they highlight it with the color highlighter of their partners.

Step 3: Students will write one paragraph (4–6 sentences) about what they learned from the video and what questions they have about the technology.

Assessment: The highlighted notes from each student would be collected.

How to do your own vertical farming:



Grow Frame (Z50810)





SEL Power-Up Reflection

Suggested questions for an SEL-focused discussion after the project.

- Could vertical farming be possible in all areas of our world?
 Why or why not?
- What may hinder or help certain areas to make vertical farming a possibility/challenge?

GROUP REFLECTION

- 1. What did we learn about vertical farming?
- 2. Is vertical farming the same in every country/area?

SELF-REFLECTION

- Could vertical farming be a possibility in my home or community?
 Why or why not?
- 2. What questions do I still have about vertical farming and the technology it includes?



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