



Vertical Farming for a More Sustainable World



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Youthful Savings



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Learning Objective

In this learning exercise, youth will learn how vertical farming can transform how food is farmed. Youth will also learn how to create a more equitable and nourished world through sustainable business practices. With over 40% of the world's population under 24, the youth can transform the current economic system into a more equitable and inclusive one through innovation and sound business practices. By incorporating new learnings like vertical farming, youth can solve gigantic problems like food insecurity and the sustainability of our planet.

Vertical Farming 101

Vertical farming is a revolutionary way to feed our growing population. According to the USDA¹, the projected world population will reach over 9 billion by 2050. The earth is not increasing its size, so as there are more and more people on this planet, how we utilize it for resources will need to change. Vertical farming allows for an increase in the growth of agriculture by allowing for indoor or outdoor farming through vertical growth mechanisms. This means that smaller communities can grow food for their community without having to rely on actual physical farmland. Furthermore, vertical farming allows food to be grown without the constant threat of weather-related issues.

Vertical farming is the practice of growing crops in vertically stacked containers.² Often, these containers are stacked indoors in a controlled environment that aims to optimize plant growth; if done mindfully, vertical farming can significantly enhance the sustainability of our earth because common herbicides and pesticides are not needed since farming is done in an environment where threats to crops don't exist. If further innovation is created for the energy required to grow crops like solar lighting, vertical farming is the ability to transform how humans grow and eat their food.

1.<https://www.usda.gov/media/blog/2018/08/14/vertical-farming-future>

2.https://en.wikipedia.org/wiki/Vertical_farming