

# TOWERGANICS: A FUN AND EASY WAY TO FARM\*

The participants will be able to learn a great deal about vertical farming by reading the comprehensive passage. At the end, they will be able to answer the questions that follow the passage.

## Climate Change

### Time

30 minutes

### Difficulty

Medium

### Resources

Pen, paper, colored pens (optional)

\*This activity was created as a continuation of learning connected to the [Towerganics](#) Limitless Project.

## Instructions

- **Step 1**
  - Ensure there is an adult to supervise this activity
- **Step 2**
  - Print the comprehensive passage and questions on a paper and distribute to the students
- **Step 3**
  - Start the test at a specific time
- **Step 4**
  - Do not allow discussion during the test
- **Step 5**
  - Take the answer paper back after the end of the test period
- **Step 6**
  - Evaluate the papers and display the pictures made by the students in the classroom



For more Climate Change activities, visit [www.preparecenter.org/TeenPrepKit](http://www.preparecenter.org/TeenPrepKit)

## TOWERGANICS: A FUN AND EASY WAY TO FARM\*

The participants will be able to learn a great deal about vertical farming by reading the comprehensive passage. At the end, they will be able to answer the questions that follow the passage.

### Passage

In Nepal, a developing nation in South Asia, more than 85% of the imported pesticides are used on vegetables repeatedly and carelessly without knowing the active ingredient. (Sharma et. al, 2015)

People living in the cities are obliged to consume stale and chemical laden vegetables that are transported from hundreds of kilometers away.

Growing your own herbs and vegetables on the already available spaces of your home means access to fresh, organic, healthy and affordable produce for your family. Towerganics is a 21st century technologically sound innovation that uses zero soil, zero pesticides, 90% less water than conventional methods of farming and produces vegetables 3 times faster than on soil. It works on the principle of aeroponics which means 'to work on air'. The plants hang on air while a pump propels water and nutrients to the top and showers down on the dangling roots. Individuals living in the city can grow their own organic herbs and vegetables using this innovation that is easy and operates on a click of a switch. Yes, you read it right! ON A CLICK OF A SWITCH. Farming has always been considered as an energy-intensive job. When you are asked to imagine a farmer, I bet you imagine someone wearing a hat and overalls, bending down to the soil with a plant or something close to that. However, with Towerganics you can be a farmer as well. A modern farmer, of course!

### Questions

- What principle does Towerganics work on?
- What can be grown using Towerganics?
- What are the advantages of using Towerganics to farm compared to farming in soil?
- What do you mean by pesticides?
- Draw a sketch of Towerganics method of farming with your favorite vegetables growing on it, take a picture of it and mail it to towerganics@gmail.com (We are waiting to see your pictures)



For more Climate Change activities, visit  
[www.preparecenter.org/TeenPrepKit](http://www.preparecenter.org/TeenPrepKit)