Budding Botanists: Hydroponics for Young Gardeners

NextWaveSTEM

Designed for learners in Grades K-2



Through hands-on activities, students will explore many aspects of plants, their needs, & various growing conditions. Over 15 lessons, early elementary students will record their observations & data from their own plant's progress so students can discover the unique traits of plants and their growth while beginning to delve into the exciting science of hydroponics.

Equipment, Curriculum, and Training Available:

- 15 Lesson Hours
- Curriculum and supporting materials
- Ongoing product and curriculum support
- Professional development
- Facilitation by a trained STEM instructor (optional)

LESSONS ,	
1: Parts of a Plant	Introduction into what a plant is through a photograph
2: Investigate Seeds	Exploring various seeds and parts of a seed
3: Around We Go	Exploring stages of a plants life cycle
4: Let's Grow!	Concept of germination & how a seed grows
5: Give 'Em What They Need	Understanding the needs of a plant: eg nutrition
6: Give 'Em What They Need - Part2	Understanding additional needs like light and air
7: Take Root	Exploring the idea of water absorption
8: Water Water Everyone	Update observations on previous experiments
9: What's for Dinner	Students explore what plants we eat, and what plant family they are from
10: Hello, Bug	Watch a video to set a purpose for days lesson
11: Off and Away	Engage in thinking questions to set purpose
12: Hungry Hungry Plants	Set questions that will assist in learning
13: Go Green	Engage in a quick draw to set a purpose for a lesson
14: Adapt	Engage in thinking questions to set purpose
15: Biodiversity	Engage in a biome walk listing living plants around

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