



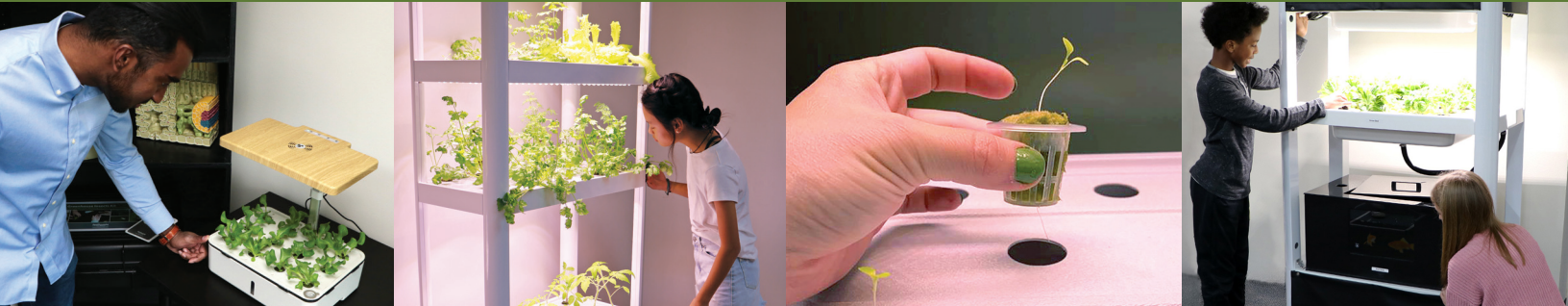
Educational Hydroponics and Aquaponics Systems

Program Implementation Guide

Engage your students in career exploration and help them develop 21st Century skills.

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Visit www.realityworks.com/hydroponics-educational-systems/ to view product and program details.



Plant Mini Educational Hydroponics System Class Pack (5-pack)

Experiment with deep water culture, ebb and flow and microgreen growth methods using these desktop-sized systems.

Plant Lab Educational Hydroponics System

Experiment with different water levels, nutrients and plants on every level of this system, which features three vertical shelves connected to different water sources.

Educational Aquaponics System

Teach students the best practices for both growing fish and plants with this hands-on system.

Plant Producer Educational Hydroponics System

Grow production-level quantities of greens with this system, which features three vertical shelves connected to a single water source for concentrated growth on every level.

Create a Custom Pathway Package

Choose hands-on learning aids and curricula that meet your unique program needs.

All products can be purchased separately

Which systems are best for your classroom?



	The Plant Mini System Class Pack of 5	The Plant Lab System	The Plant Producer System	The Educational Aquaponics System
Shelves	Compact, desktop-sized growing systems	3 vertical shelves	3 vertical shelves	1 shelf for plants
Water Source	Individual water source per system	Individual water source per shelf	Single water source connected to all shelves	Single water source that provides a closed loop water transfer between the fish tank and plant bed
Benefit of System	Enables experimentation with deep water culture, ebb and flow, and microgreen varieties.	Enables experimentation with different plants, water levels, and nutrients on each level.	Enables equal nutrient allotment and concentrated growth on each level.	Enables students to view the fish, filtration, and fertilization process as well as the plants growing through the biofilter process.
Plant Sites	12	33	42	14
Shelf Spacing (Grow Height)	11" from the top	10"	20" bottom, 12" middle, 12" top	13.25"
Fan	One fan per unit	One fan per shelf unit	Two fans per shelf unit	2 fans on grow shelf
Water Tank	Each unit has a four-liter water tank	Three 2-gallon water tanks/one per shelf	One 7-gallon tank	33-gallon fish tank
Weight	6.4 lbs per system	75 lbs	100 lbs	130 lbs. without water

Curricula Overview

All curricula include lesson plans, presentation slides, assessments, and other student materials.

Experiential Learning Tools	Curriculum Length	Lesson Topics
Educational Hydroponics Systems	2 hours	• What Is Hydroponics? • Plant Life
Educational Aquaponics System	6-7 hours	• Introduction to Aquaponics • Components of an Aquaponics System • Fish Care • Plant Care