

Gardyn  for schools

Transforming K-12 education with our
innovative technology for an unparalleled
learning experience
January 2024



schools@mygardyn.com · www.mygardyn.com/school-gardens

Our mission

Better for you, better for our planet.

We, at Gardyn, believe it is urgent we rediscover what food should be about: Fresh, Tasty, Nutritious, easily Accessible, and grown in a Sustainable manner, every day.

Through Gardyn for Schools, we are reimagining an education system where our next generations can learn about nature and healthy lifestyle in a practical sustainable way.

Little effort. Lots of learning.



What is Gardyn?

Gardyn is a ground-breaking, award-winning, vertical gardening system.

It features 2 breakthroughs:

- ❖ Novel Hybriponics
- ❖ AI-powered w/ Kelby

Gardyn changing the game for STEM Education:

- ❖ Compact
- ❖ Autonomous
- ❖ Enhanced learnings



Gardyn 3.0: the most innovative indoor gardening system



Click on the picture to see how Gardyn works

Meet Kelby®

Smart teaching assistant

Game-changing features provide an opportunity for teachers to engage students in hands-on learning experience without much effort. Easy to integrate into the curriculums.



24/7 Plant Monitoring



Vacation Mode



Optimal Growth Controls



Plant Care Coaching



Timelapse Feature

Grow your favorite produce

With better taste and zero waste, choose from 80+ tasty varieties



MICROGREENS



Packed with nutrients, loaded with flavor



40% More Nutrition

These mini-greens are packed with Omega 3s, antioxidants, easily-digestible fiber and more.



Customize Your Greens

Choose from 10 varieties and grow what you need - as little as 1 or as much as 10 at a time



Superfood, Super Easy

Ready to harvest in just 7-10 days, Microgreens are bursting with flavor and nutrition.

Gardyn accessories

Can be added to any Gardyn device to further enhance the experience



Gardyn Sprout Nursery

Holds yCubes for germination



Plant Belts

Provides additional support for vining and fruiting plants



HydroBoost

A plant-based water treatment



Gardyn Cap

Fits seamlessly into empty slots when not growing all 30 plants



Gardyn Trellis

Supports vining plants on your Gardyn



Gardyn Vase

Designed to fit a Gardyn pod



yCovers

Blocks light to promote healthy growth and reduce algae

The Gardyn experience school bundle with essentials





Gardyn's use in K-12

From KG to colleges, an array of possibilities with the same device



Sustainable gardening and Mindfulness

Indoor gardening, joy and connection



Agriculture, Science and Food production

Curiosity, Research and Discovery



STEM and STEAM

Design experiments and Data analysis



Horticulture, Culinary, CTE, etc.

Health, Nutrition, and Home economics



Agri. engineering, Teacher's ed, etc.

Innovative tech, R&D, Plant science

Before school and after school programs

Future leaders and K-12 teachers

K-12 school and college cafeterias, libraries, campus beautification project and sustainable clean greenhouses

Ms. Alicia K, 7th grade science teacher

Alicia first became aware of hydroponic gardening after she saw Gardyn on Facebook. She instantly knew she wanted to have this for her class room and integrate live plants into her 7th grade science curriculum. Through careful consideration Alicia applied for a Walmart grant so she could fund 4 complete newest generation of Gardyn 3.0 systems.



“There is a community of teachers that can help you get started and help you with grant development. Reach out on [Gardyn for K-12 schools on Facebook](#).”

Just outside of Alicia's classroom there are 4 Gardyns in operation for almost 2 years and she has incorporated the plants, the technology, growth cycles, and harvest into the following 7th grade curricula:

- ❖ Research and Design
- ❖ Cells & Genetics
- ❖ Waves & Light
- ❖ Space
- ❖ Health and Nutrition
- ❖ Environmental Impacts

The kids are learning where their food comes from and how hydroponics are more sustainable than traditional soil environments. Alicia stated, "The kids are so proud of their plants, they often share and present to other classes on the Gardyn. Other teachers in the building enjoy the Gardyn in the courtyard as it is a mood booster during the long Michigan winter."



This is not another stand-alone project that you are trying to incorporate into the class. Gardyn can integrate into anything you are teaching. It is a multifaceted tool to bring hands-on experience into your classroom.

7th graders learning hydroponic gardening using Gardyn



The school is using several Gardyn systems. They grow tomatoes, peppers, jalapeños, strawberries, lettuce, and herbs like cilantro.



The students experience hands on nurturing and growing plants on the systems, including refilling water based on Kelby dashboard, adding nutrients, balancing pH, trimming roots, and harvesting it's bounty etc. They also learn various NGSS standard based STEM topics.

7th graders learning to research using Gardyn



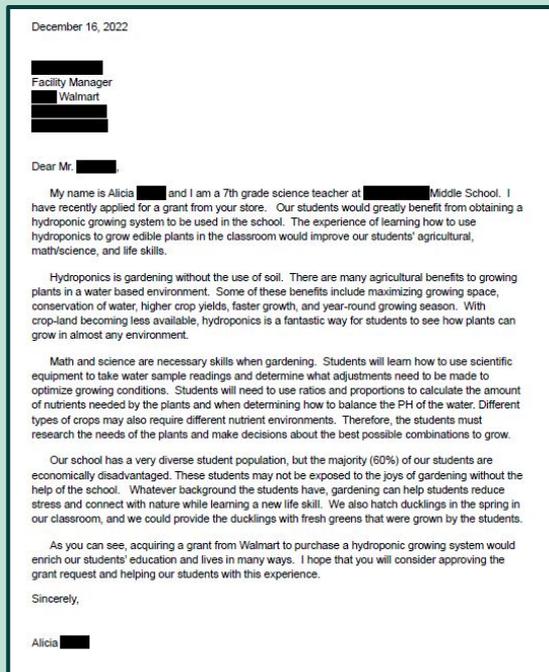
2023 school year: “The students were introduced to the hydroponics project today! They began researching growing requirements and will be grouping the plants into towers soon.” — Alicia



2023 School year: “We are currently studying light and color. The students compared the spectra of several light sources using a spectroscope. This included the Gardyn grow lights to natural sunlight.” — Alicia

Finding grant was not difficult for Ms. Alicia

She leveraged her community businesses to support her vision.



Resources like this to find grants are often shared by teachers in the “Gardyn for K-12 Schools” Facebook page.

Ms. Sarah K, Special Education teacher

Sarah recently integrated growing and hydroponics into the curriculum to give the cognitive impaired students a hands on learning experience. She wanted to teach them where food really comes from, and watch the growth process.

Sarah stated, This helps them gain life skills as they learn food preparation, economics of the grown foods vs. food you buy and vocational skills, like hygiene and learning how to help around a household and food preparation.

Sarah's class sponsors and executes an annual Salad Bar fundraiser. They plan to incorporate their harvest into an annual Salad Bar. The students will use some of the Gardyn vegetables and shop for additional foods. They are learning food prep, and execute the salad bar luncheon for all the teachers.



“The hands-on learning with real food helps my students learn about the tools to help them care for themselves or in a group home someday.”

Students learning life skills of growing food and sharing



Sarah setting up new Gardyn with her student



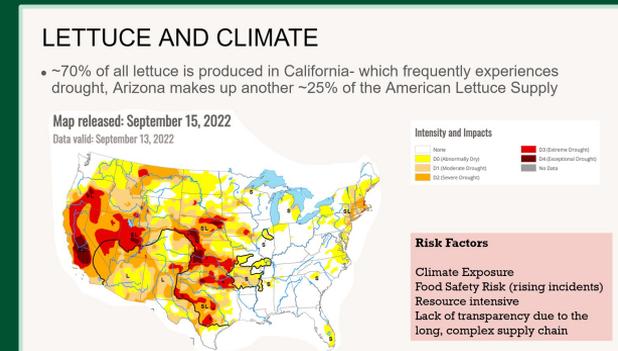
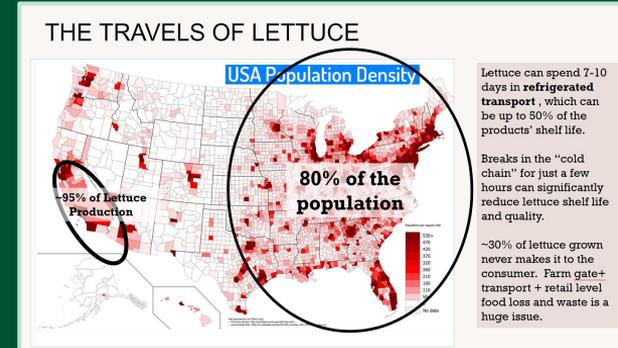
"From our first time planting at the end of Oct, to this week, the students got to see how the Gardyns can help support our student ran salad bar... Growing has been a learning experience for all of us." — Sarah



"We had our amazing tech department 3D print this for us! Hoping it helps us with water spills." — Sarah

We need to change the current food paradigm

- ❖ Agriculture uses 70% of the planet's freshwater – while generating chemicals that degrade the natural ecosystem
- ❖ 30% salad lettuce is lost before consumer purchase, another 35% are tossed from consumers' refrigerators
- ❖ Land use conversion for agriculture is the leading driver of biodiversity loss in the world
- ❖ Agri-food sector accounts for 31% of world's GHG emissions, yet poor diet is main contributor to leading causes of death worldwide



With Gardyn, teachers can make even larger impact

GROW SUSTAINABLY. EAT DELICIOUSLY.

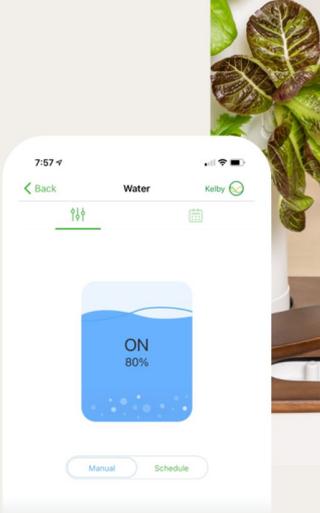
Grow with 95% less water and zero pesticides.

Sustainability is at the heart of everything we do. Growing a Gardyn at home reduces food waste and eliminates CO2 emissions in transit while delivering cleaner, healthier ingredients to every table.

33 Million
GALLONS OF WATER SAVED WITH GARDYN

380,000
POUNDS OF PESTICIDE SPRAY SAVED

2 Million
POUNDS OF FRESH PRODUCE GROWN



Grow Sustainably With Gardyn

ONLY GROW THE GOOD STUFF

50% more nutrients.
100% more delicious.

Gardyn is taking a bite out of the broken food system and putting better health, more nutrition, and cleaner greens into your kitchen. Our growing technology is easy to use, so you can grow plants with 50% more nutrients and absolutely zero pesticides.



Nutrient	Gardyn Increase
Vitamin C	+82%
Vitamin K	+117%
Vitamin A	+123%

+82% Vitamin C
GARDYN
GROCERY STORE

WHY IT MATTERS
Vitamin C protects your cells against the effects of free radicals and helps to repair body tissue

+117% Vitamin K
GARDYN
GROCERY STORE

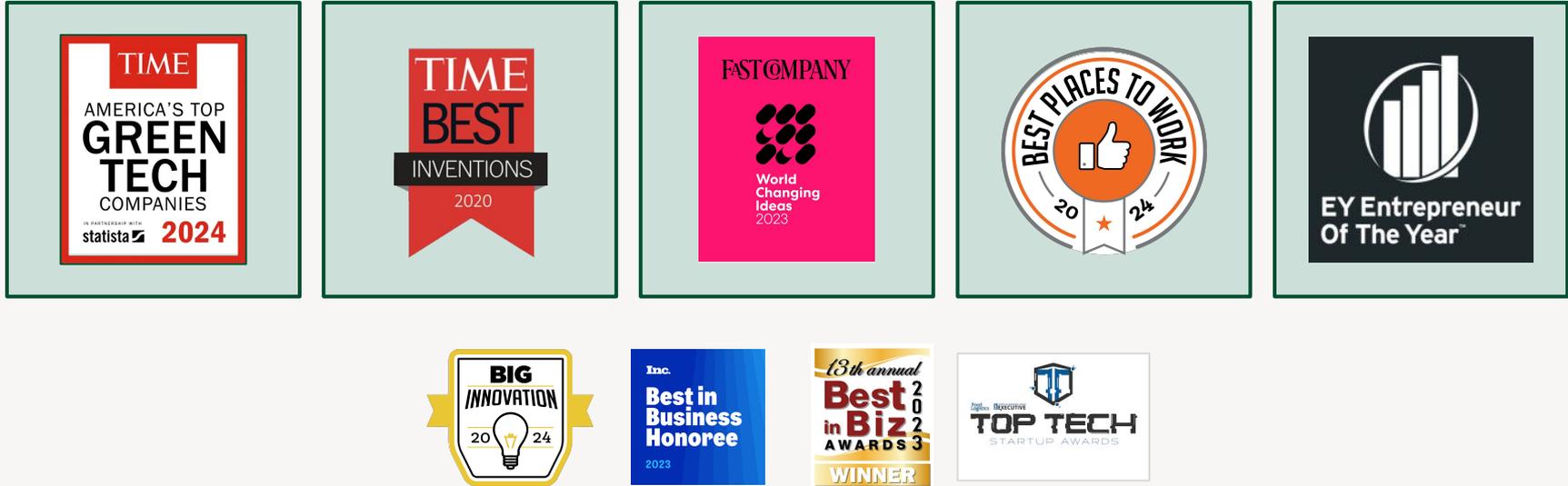
WHY IT MATTERS
Vitamin K help promote healthy bone tissue, regulates blood sugar and protects the immune system.

+123% Vitamin A
GARDYN
GROCERY STORE

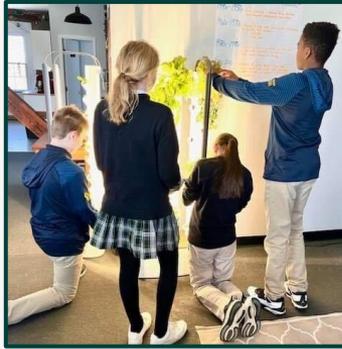
WHY IT MATTERS
Vitamin A is important for your immune system, vision, reproduction and much more.

Healthier Lifestyle With Gardyn

Gardyn recognized with numerous awards



Join community of teachers learning about hydroponic indoor gardening in the [Gardyn for K-12 Schools](#) facebook page



Join us at the National Conferences and Trade Shows

NSTA in Denver, CO March 20–23, 2024: join us!





Thank you.



Contact us: schools@mygardyn.com · www.mygardyn.com/school-gardens