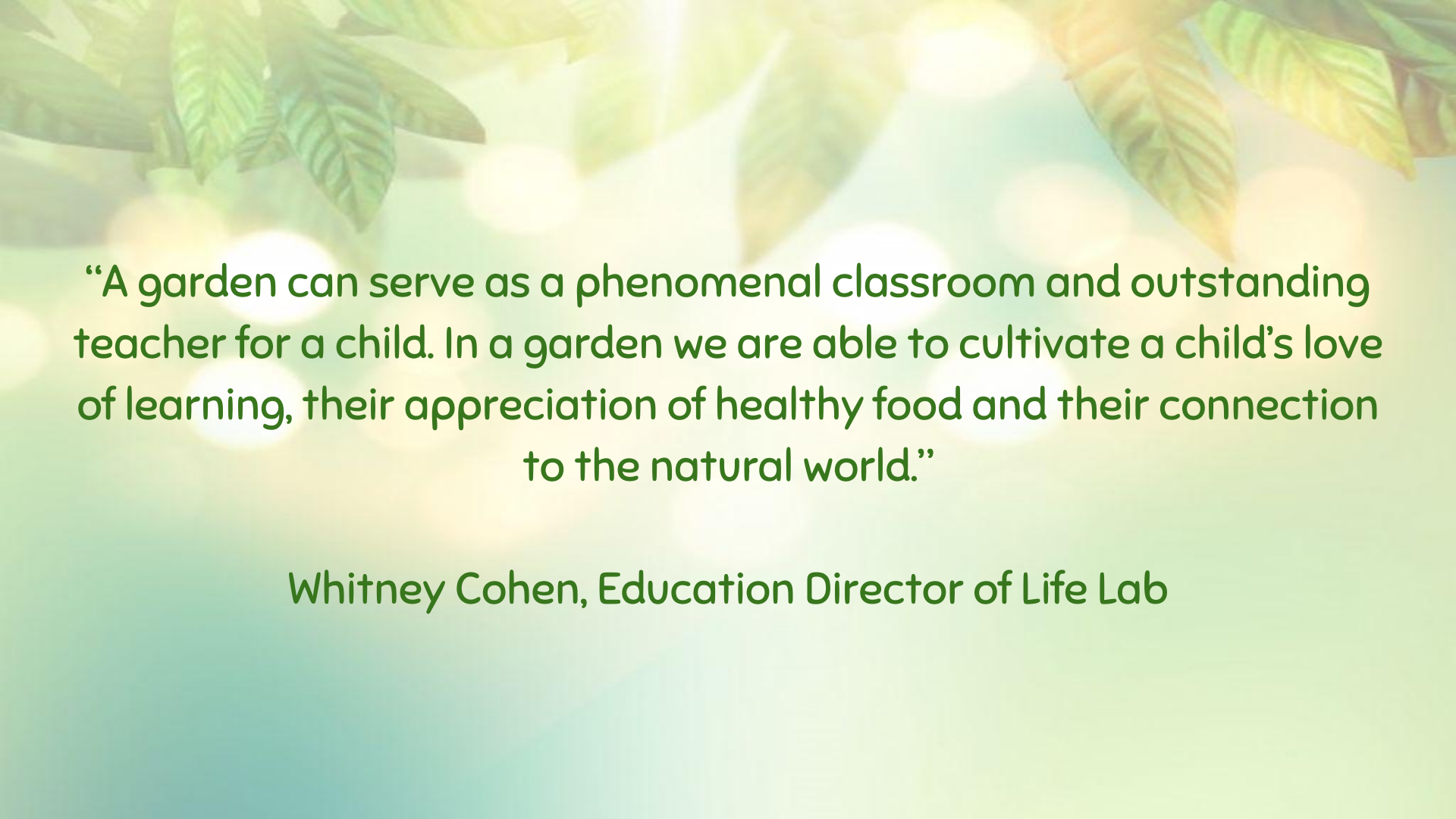


Garden Based Learning

EB Shurts Greenhouse Proposal



SDW Environmental Education
Erica Yoss



“A garden can serve as a phenomenal classroom and outstanding teacher for a child. In a garden we are able to cultivate a child’s love of learning, their appreciation of healthy food and their connection to the natural world.”

Whitney Cohen, Education Director of Life Lab

Why Garden Based Learning?

Positively impacts food choices

Increases awareness of and improves attitudes towards environment and nature

Improves classroom achievement

Nurtures responsibility, patience, and relationship skills

Provides physical activity

Lessens physical and emotional stress

Nurtures community connections

Purpose of a Greenhouse

Extension of the outdoor nature-based education

Further build hands-on, diverse learning opportunities

Connections between school, home and community

Extend learning beyond April-October

Provide service to our local community

Community Connections

Hope Center

SDW Family & Consumer Science Education

Victory Gardens

Greenhouse Location



Greenhouse Style – Cape Cod



Greenhouse Details

Approximately 12' x 8'

Semi permanent, installed on wood foundation

Metal with 2 layer polycarbonate walls and 5 layer polycarbonate roof

Roof and Side vents with screens

Wind loads 90 mph+, snow loads 30 lb+ & hail resistant

ADA compliant door with panic bar and double layer glass

Deadbolts plus wireless cameras for security

Use as a secondary classroom with benches and space for small group learning

Timeline

Phase One:

- February 2021 - Confirm location and receive city approval
- March 2021 - Sign greenhouse contract and pay deposit
- March-May 2021 - Continue to work with city planner and PRF board/staff to plan and complete all requisite documents
- July 2021 - Greenhouse installation
- July-August 2021 - Purchase materials and complete the inside preparation of greenhouse
- September 1 2021 - Begin use with students

Phase Two:

- February 2022 - Work with PRF Facilities department to design and confirm location for ADA path to greenhouse
- March 2022 - Work with Forestry department to plan and design landscaping around the greenhouse and path
- May 2022 - Install path and landscaping

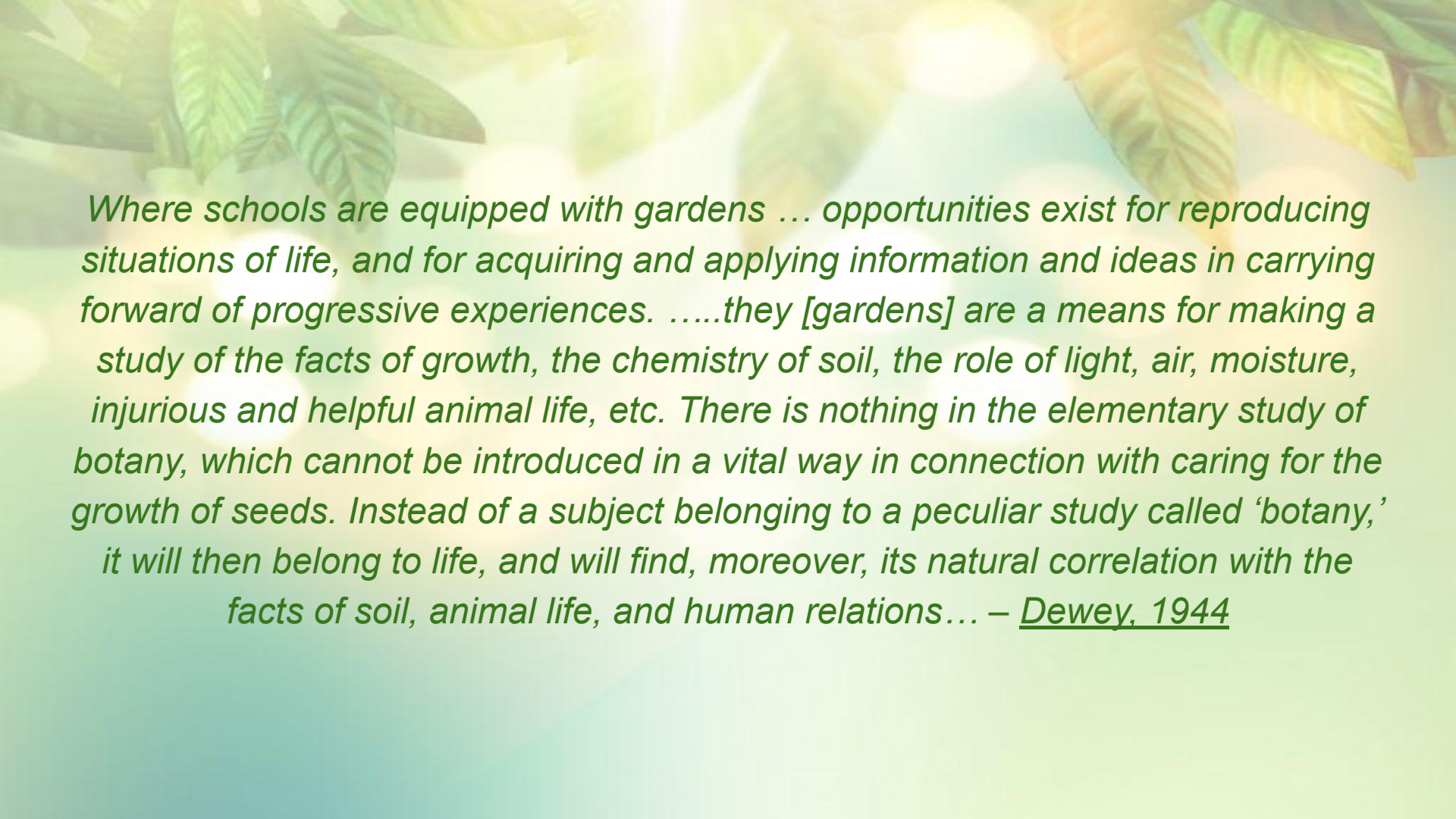
Budget

Phase One: \$22,000

- Greenhouse construction \$19,000 ([Estimate](#))
- Greenhouse shelving, furniture, and supplies \$3,000

Phase Two: \$3,000

- Pathway
- Landscaping



Where schools are equipped with gardens ... opportunities exist for reproducing situations of life, and for acquiring and applying information and ideas in carrying forward of progressive experiences.they [gardens] are a means for making a study of the facts of growth, the chemistry of soil, the role of light, air, moisture, injurious and helpful animal life, etc. There is nothing in the elementary study of botany, which cannot be introduced in a vital way in connection with caring for the growth of seeds. Instead of a subject belonging to a peculiar study called 'botany,' it will then belong to life, and will find, moreover, its natural correlation with the facts of soil, animal life, and human relations... – Dewey, 1944

Research and Resources

Videos

- [Growing minds by growing school gardens: Laurie Brekke at TEDxNavesink](#)
- [Changing the Nature of Education - School Gardens \(inspiring speech\)](#)
- [Garden Based Education - Math](#)
- [Education blossoms in elementary outdoor learning spaces](#)
- [Common Core and Next Generation Science Standards in the Garden](#)
- [Richard Louv on Education](#)
- [How to Start a School Garden - Help Kids Grow Healthy Food!](#)

Websites

- [Lifelab: The Value of Garden-Based Learning](#)
- [A Life Lab Garden is a place where students...](#)
- [Teaching in Nature's Classroom](#)
- [United States Botanic Garden - Greenhouse Manual](#)

Photo Galleries - School Gardens and Greenhouses

- [Gallery 1](#)
- [Gallery 2](#)
- [Gallery 3](#)