



THE ECOKIT

*Making Green Roof Concepts
Accessible for All*

Meet the team:



Lauren
Film Production



Kem
Workbook Designer



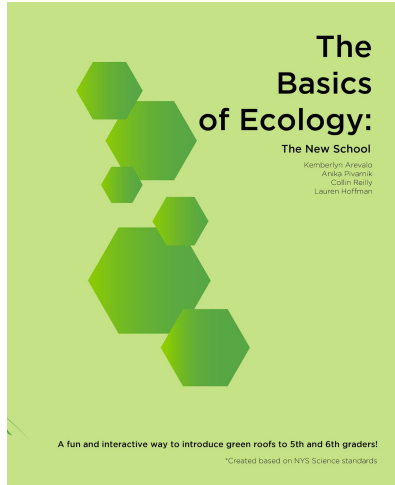
Anika
Communications



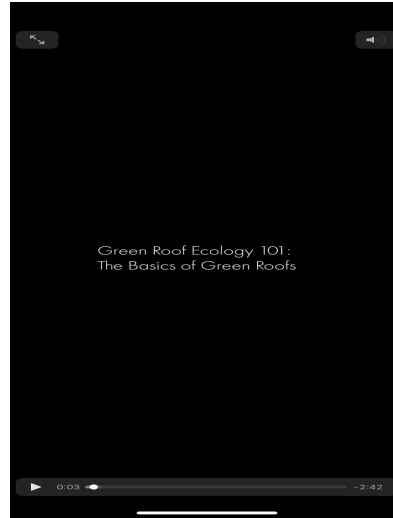
Collin
Product Design

WHAT IS THE ECOKIT?

Student Activity Workbooks



Video Series



Physical Model of Actual Green Roof Layers



+ **Teacher Guide &
Lesson Plans**

THE PROBLEM

The diversity of green roof stakeholders is critical to maintaining the ecological resilience of the roof.

Inner-city schools often lack the resources + opportunities to introduce children to the concept of green roofs, even if some of these schools have green roofs in their own neighborhoods.

OUR GOAL

Create an lesson plan kit for educators that demonstrates what a green roof is, and how it works, in a engaging, digestible format for fifth-and-sixth-grade level students.

OUR MISSION

Raise awareness of green roof concepts to city elementary-school students who otherwise may not have the opportunity to be exposed to these ecosystems.

NEW YORK ELEMENTARY SCIENCE CURRICULUM GRADES K-4

Standard 4: The Living Environment

Concepts

- What is an ecosystem? What is ecology?
- Cellular respiration + photosynthesis

3.1.b

- Plant structures, growth, and survival

4.1.a

- Plant life cycles + life span

5.2.g

- Environmental impact on organism health

****We also consulted Next Generation Science Standards**

CONSULTING THE EXPERTS



Catherine Milne

Chair of the Department of Teaching and Learning, NYU

- **Relate to what students already know**
- **Encourage them to use their imagination**
- **Compare to a piece of a real roof**
- **Add imagery + drawing activities**
- **Demonstrate why they should care**
 - **Heat measuring activity**

VIDEOS

WORKBOOKS



Short-text section:
Definitions of ecology and ecosystems

Matching vocab game:
Life cycle and basic environmental definitions

Reflection questions + Additional resources

WORKBOOKS



Short-text section:
Definitions of green roofs

Fill-in vocab game:
Green roof terms

Map:
Find green roofs in NYC

Diagram:
Green roof material layers

Reflection questions + Additional resources

WORKBOOKS

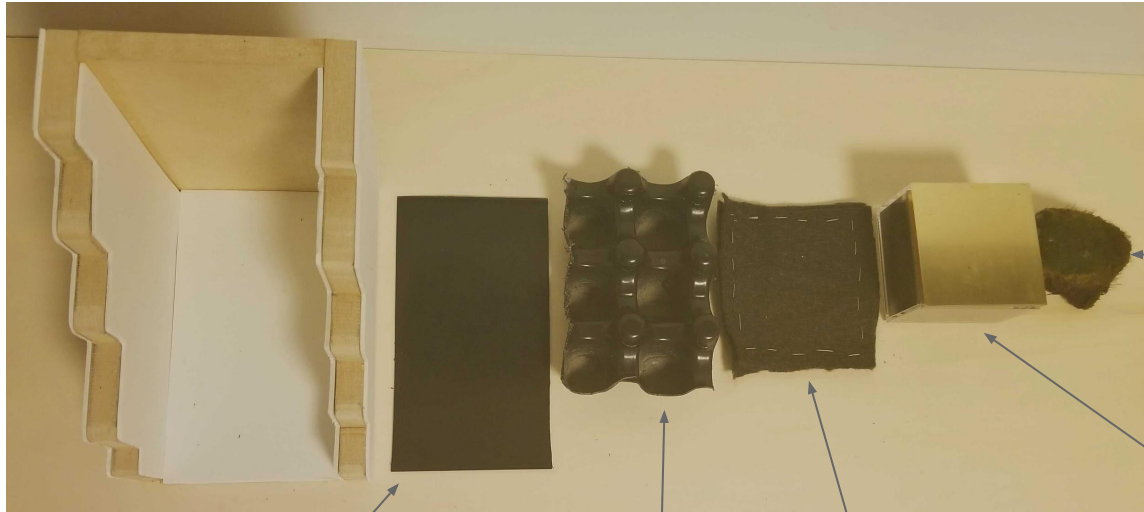


Short-text section:
Definition of intensive vs. extensive
green roofs

Vocab game:
Green roof layers and materials

*Reflection questions + Additional
resources*

GREEN ROOF LAYERS



Root Repellent

Drainage Layer

Filter Membrane

Vegetation

Growing Medium

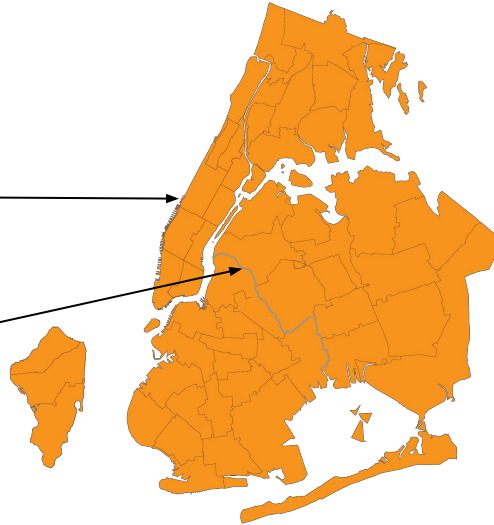
OUTREACH



Greenwich Village
P.S. 141



Williamsburg
Kingsland Wildflowers



COSTS TO IMPLEMENT

\$50 Printing

\$50 Kit manufacturing

+Delivery

**QUESTIONS
OR COMMENTS?**