

CLIMATE RESILIENCE LEADERSHIP LAB

An aerial architectural rendering of a city, likely New York City, showing a dense urban grid. The image is overlaid with a network of green lines and rectangular zones, representing a climate resilience plan. These green zones are distributed across the city, often following major thoroughfares and waterfront areas. The background shows a mix of grey buildings, green parks, and a large body of water (the Hudson River) on the right side. The overall style is a semi-transparent, light-colored overlay on a realistic cityscape.

**DREAM Charter School
Starr Whitehouse Landscape Architects and Planners**

August 20, 2019

Create a neighborhood that is resilient to climate change

- Offer opportunities for students to demonstrate leadership
- Provide experiences for students to apply scholarly work in neighborhood and to see the impact of their actions
- Connect students and their knowledge with community members



1 | What is Resilience?

- Adaptation
- Social infrastructure

2 | East Harlem Ecological History

- Mapping
- Neighborhood form

3 | Social Vulnerability

- Climate projections
- Demography

4 | Hydrology

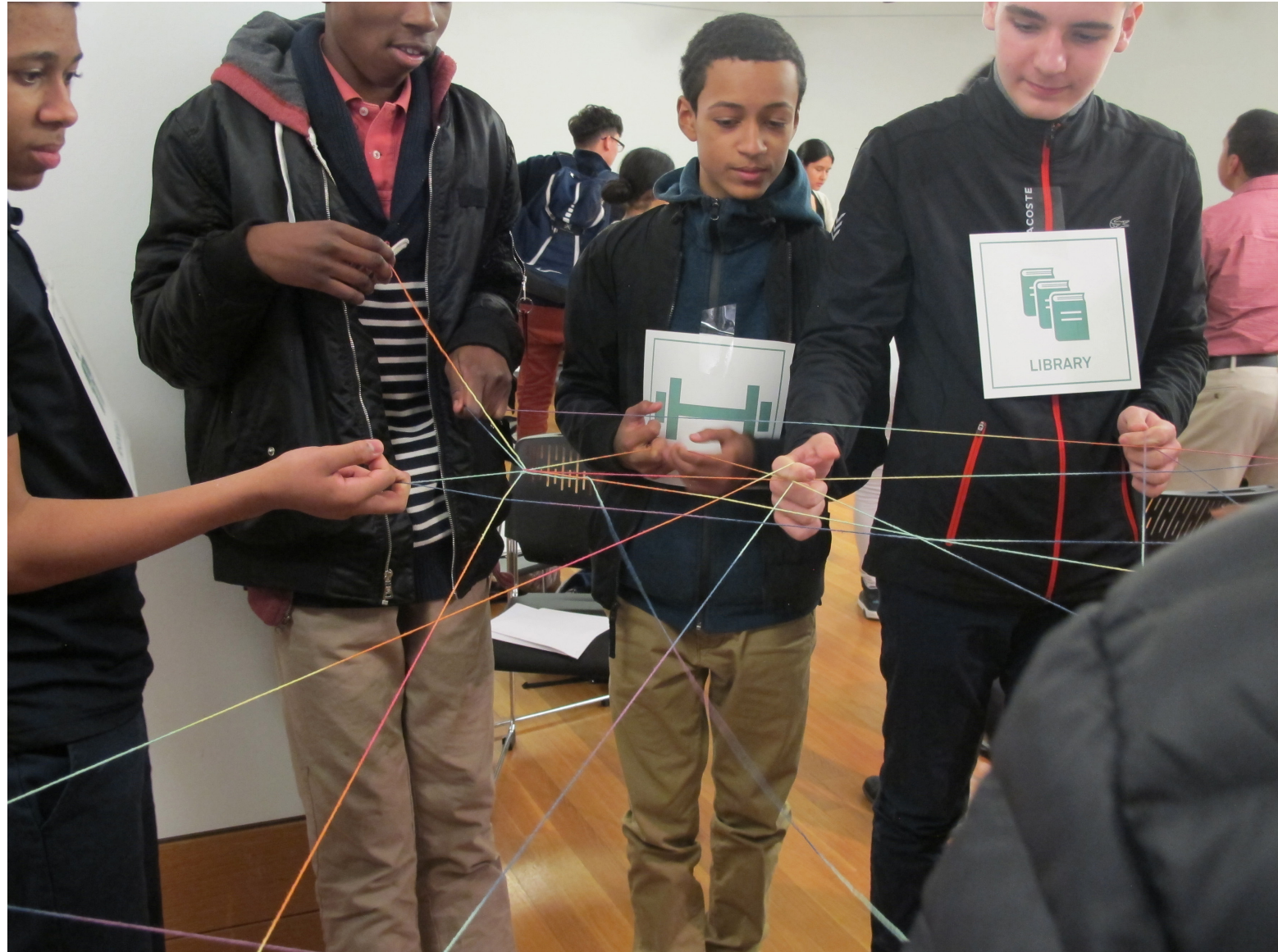
- Run-off + slope
- Permeability

5 | Green Infrastructure

- Soils + infiltration
- Plants

6 | Public Space

- Observation
- Site planning



CURRICULUM MODULES + ACTIVITIES

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VISIT TO BILLION OYSTER PROJECT



VISIT TO NEWTOWN CREEK WASTEWATER TREATMENT PLANT

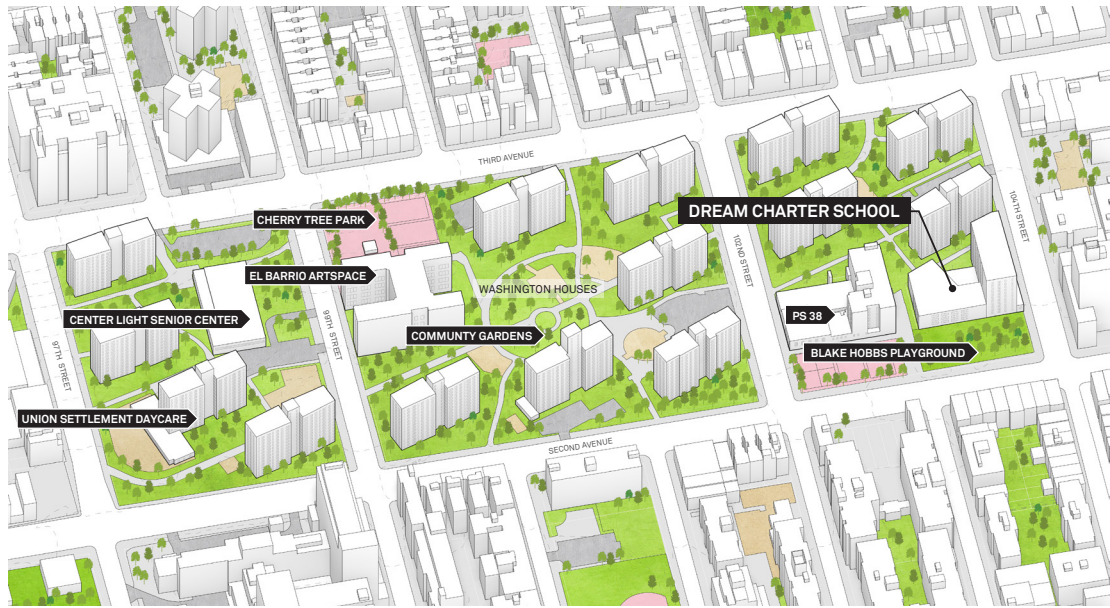


MANHATTAN DEPUTY BOROUGH PRESIDENT SPEAKS TO STUDENTS

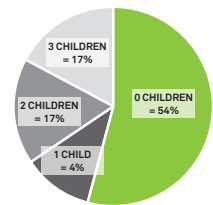


ENGAGING PROFESSIONALS + FIELD TRIPS

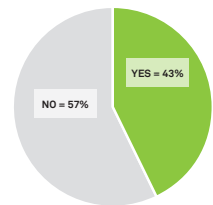




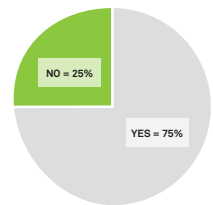
2018 WASHINGTON HOUSES SURVEY: Sample Results



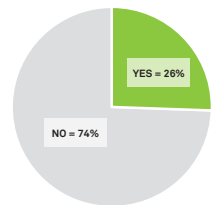
AGE: How many children aged 3 or younger live in your apartment?



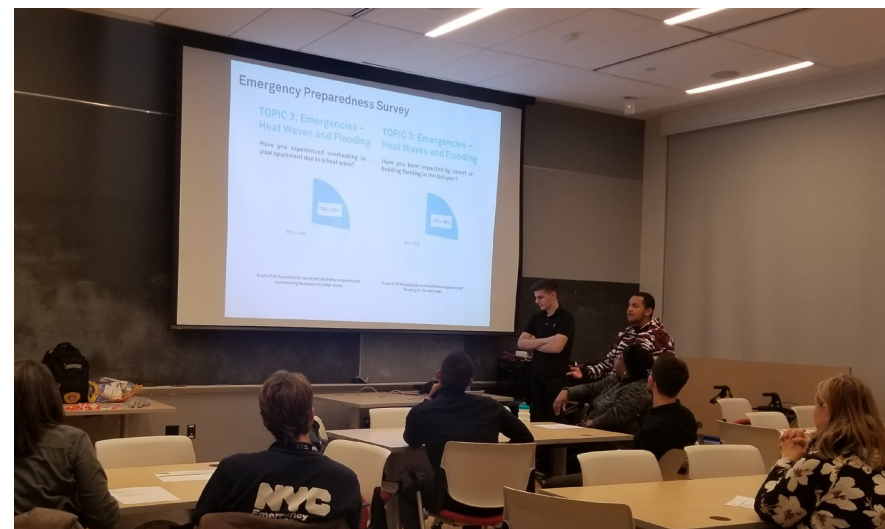
HEALTH: Are there disabled people living in your apartment?



EMERGENCIES: Do you have an air conditioning unit in your house?



EMERGENCIES: Have you experienced strain at home during a snow storm in the last year?



PILOT PROJECT 1: WASHINGTON HOUSES READY





PILOT PROJECT 2: WASHINGTON HOUSES RAINGARDENS

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- Dedicated DREAM faculty co-teacher improved coordination and enhanced student enthusiasm and understanding
- Any student can benefit, not just honors students
- Teaching Fellows leadership opportunity for 10th graders
- Pilot projects took a long time, but structure is now in place



Near-term (2019-20 school year)

- Integrate curriculum with Living Environments “Human Impacts” unit
- Implement pilot project # 3 at Washington Houses

Medium-term (2020 and beyond)

- Document curriculum to share more broadly (pending response to SAPPI Ideas that Matter application)
- Seek resources for longer-term funding
- Identify new partners for pilot projects

