



# FOCUS FORWARD



# Singapore's Air Quality Plummet as Haze Returns

Air pollution in the city-state reaches 'very unhealthy' level

The Wall Street Journal

August 28, 2016

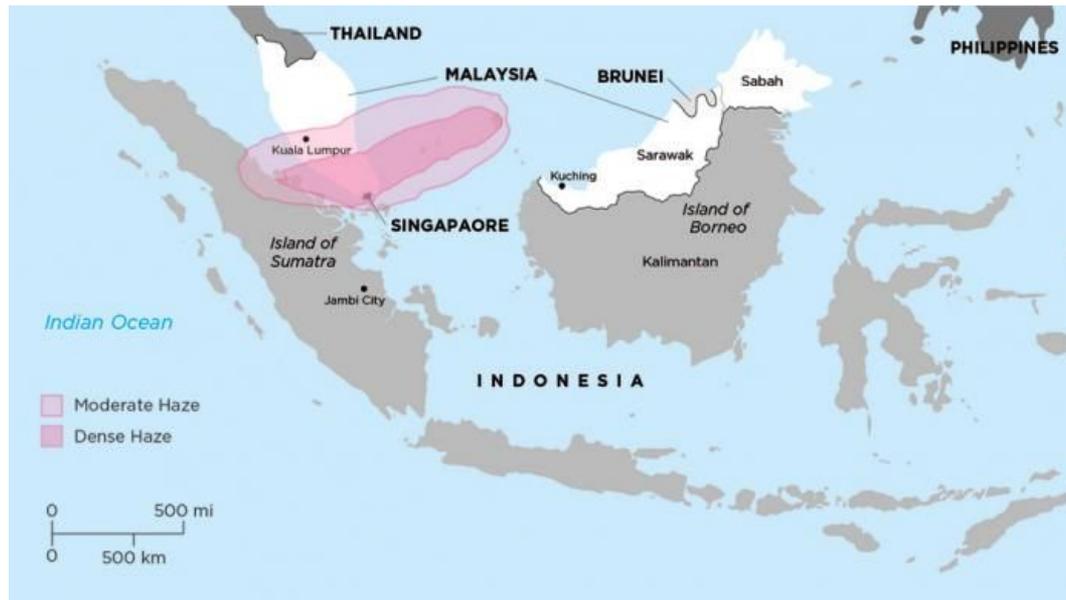
Singapore's skyline is hardly visible as haze blanketed the city on Aug. 26, 2016

# Singapore air quality worsens overnight as Indonesia fire arrests jump



Huileng Tan | [@huileng\\_tan](#)

Thursday, 25 Aug 2016 | 11:37 PM ET [CNBC.com](#)

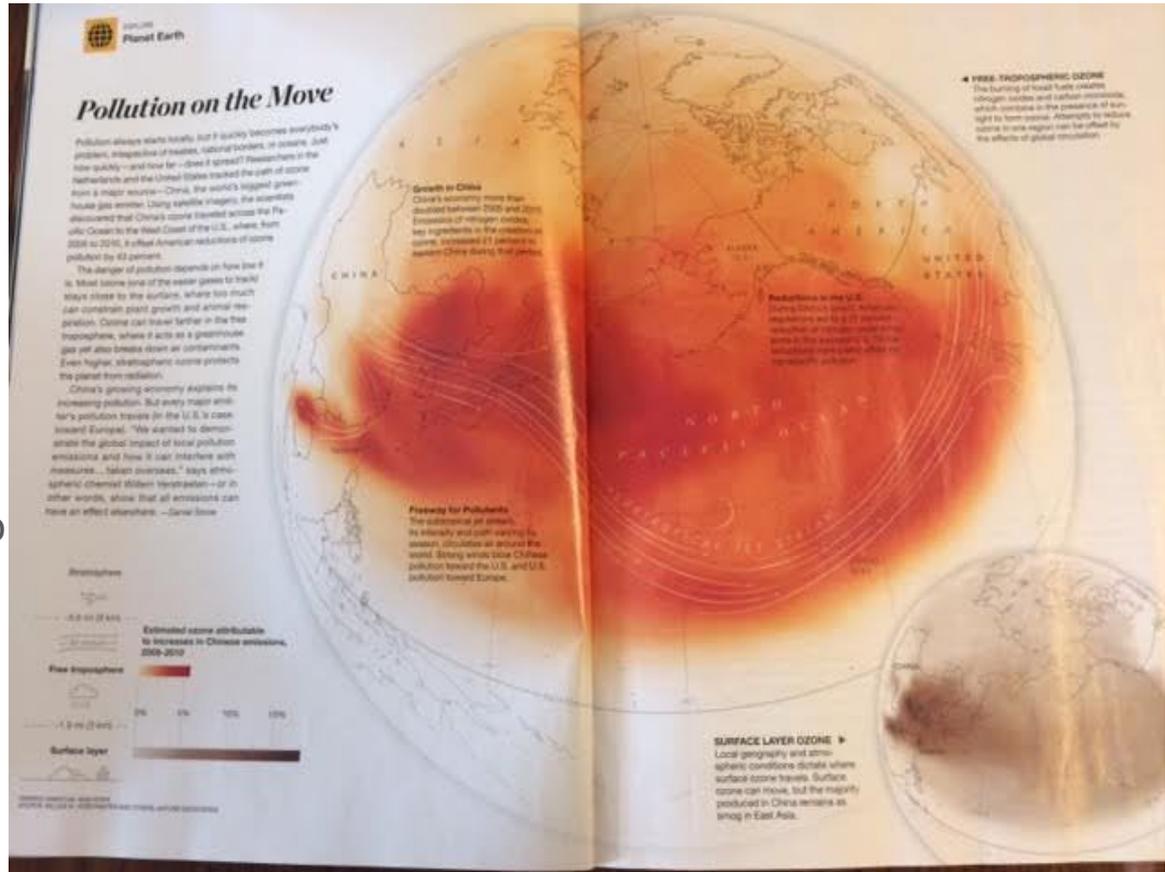


- Haze created by palm oil production practices in Indonesia
- Millions have suffered grave damage to their health
- Need to eliminate use of fire for
  - Site preparation
  - Deforestation
  - Peatland destruction
- Transform palm oil production practices
  - Methods that protect environmental and human health

# Pollution on the Move - National Geographic

## October 2016

- Pollution from manufacturing in China
- Moving across the ocean to the US
- Problems incorporate science, geography and politics
- Collaborative project to be developed
- Will the Air Be Clean Enough To Breathe? National Geographic
- Students will be guided through
  - Analysis of models
  - Real-world data
  - Explore the interaction of factors that affect air quality



# Science Scholars Student Exchange Program

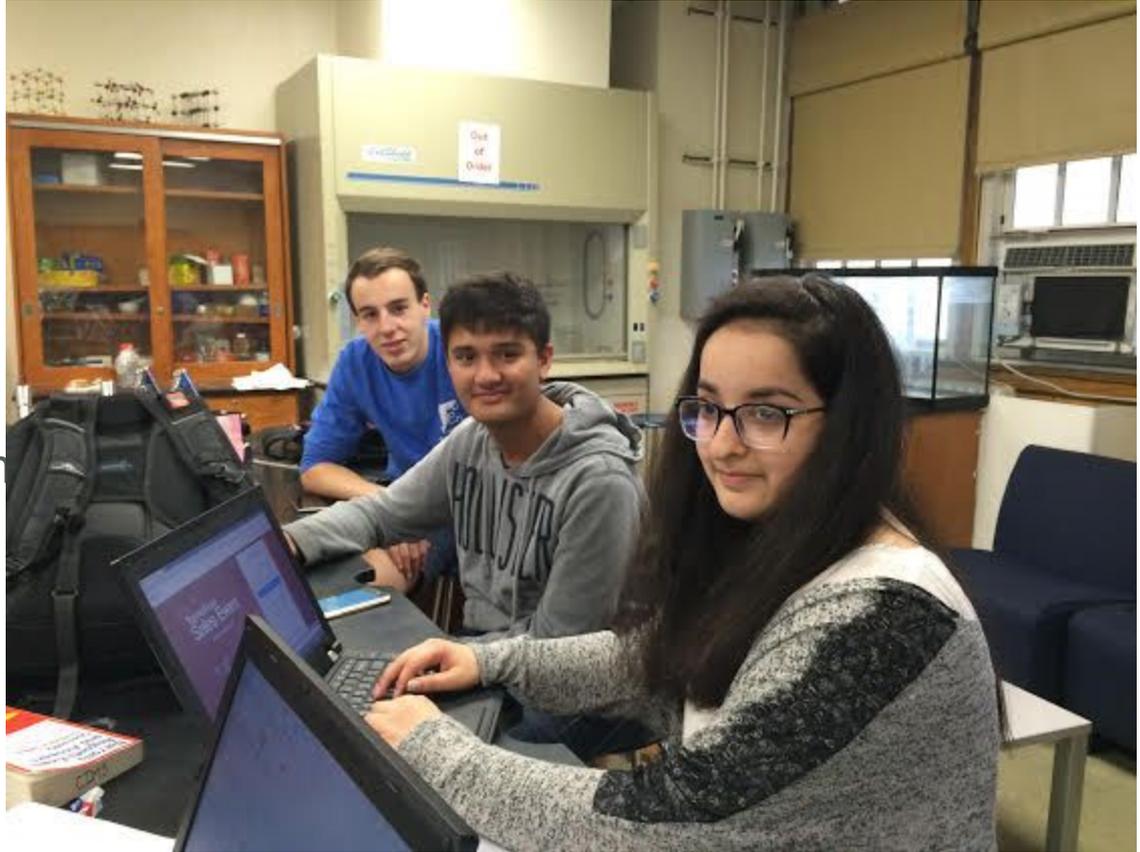
- 2015 - 2016
- Student initiated program
- Collegiate Institute for Math And Science
- Bronx, NY



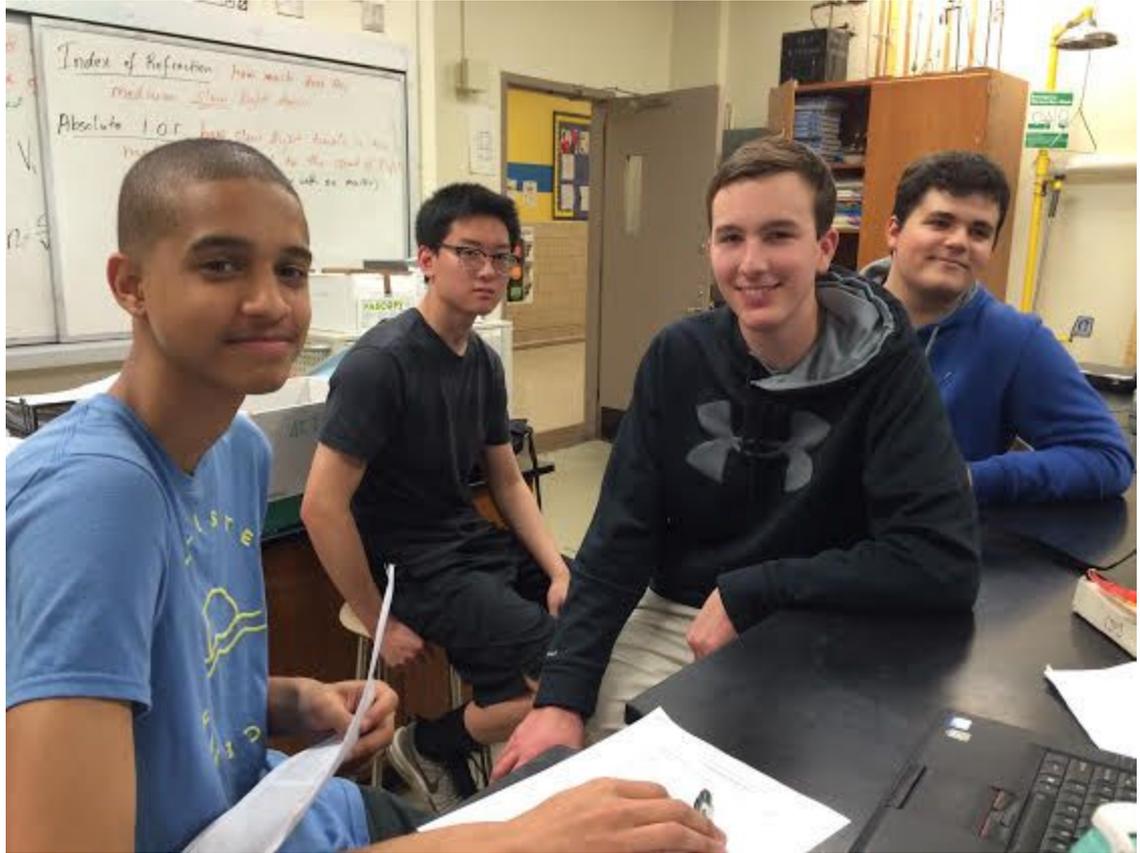
- No Science Research program at the school
- Students demonstrated interest
- Developed partnership



- Matched Science Scholars students with Collegiate Institute students with common interests.
- Collaborated via email
- EHS students guided partners through presentation of first scientific article.



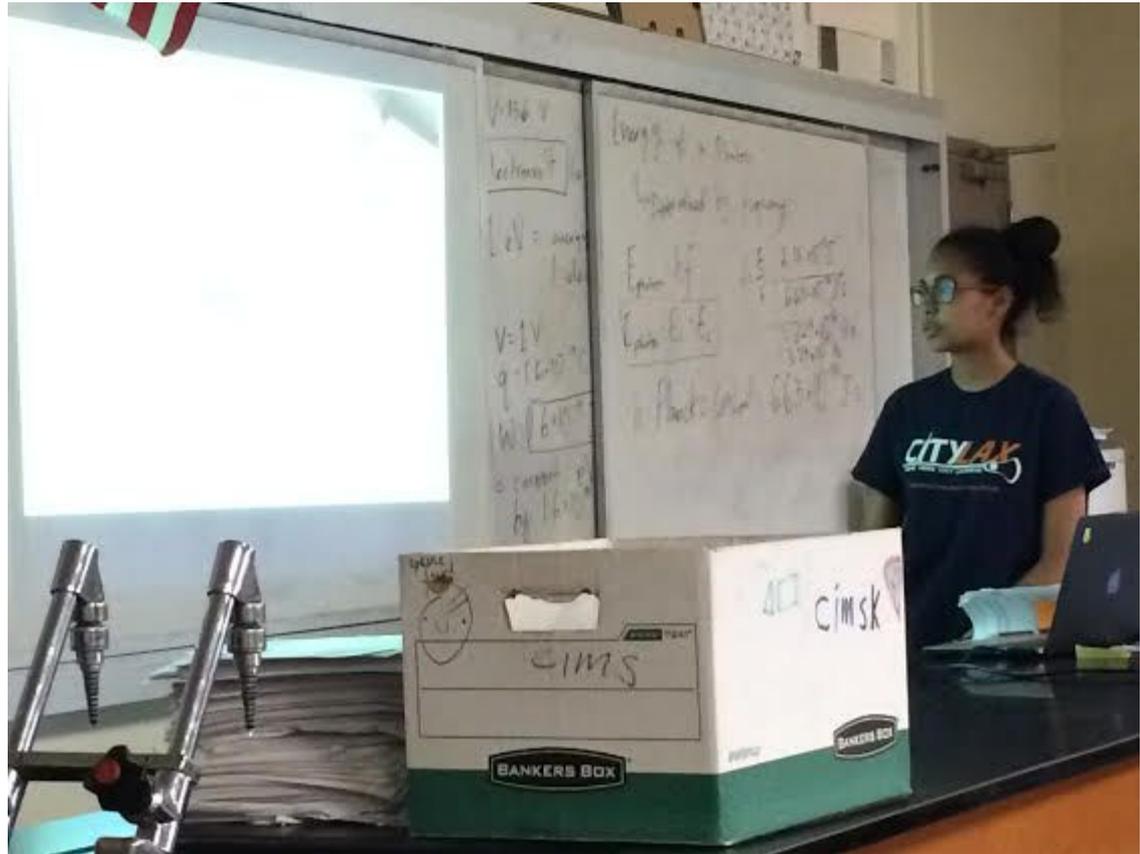
- Visited Collegiate Institute three times throughout the school year to work in-person
- Global learning close to home



- EHS students so willing and proud to share their expertise in the research process
- Collegiate Institute students so welcoming and enthusiastic to face the challenge



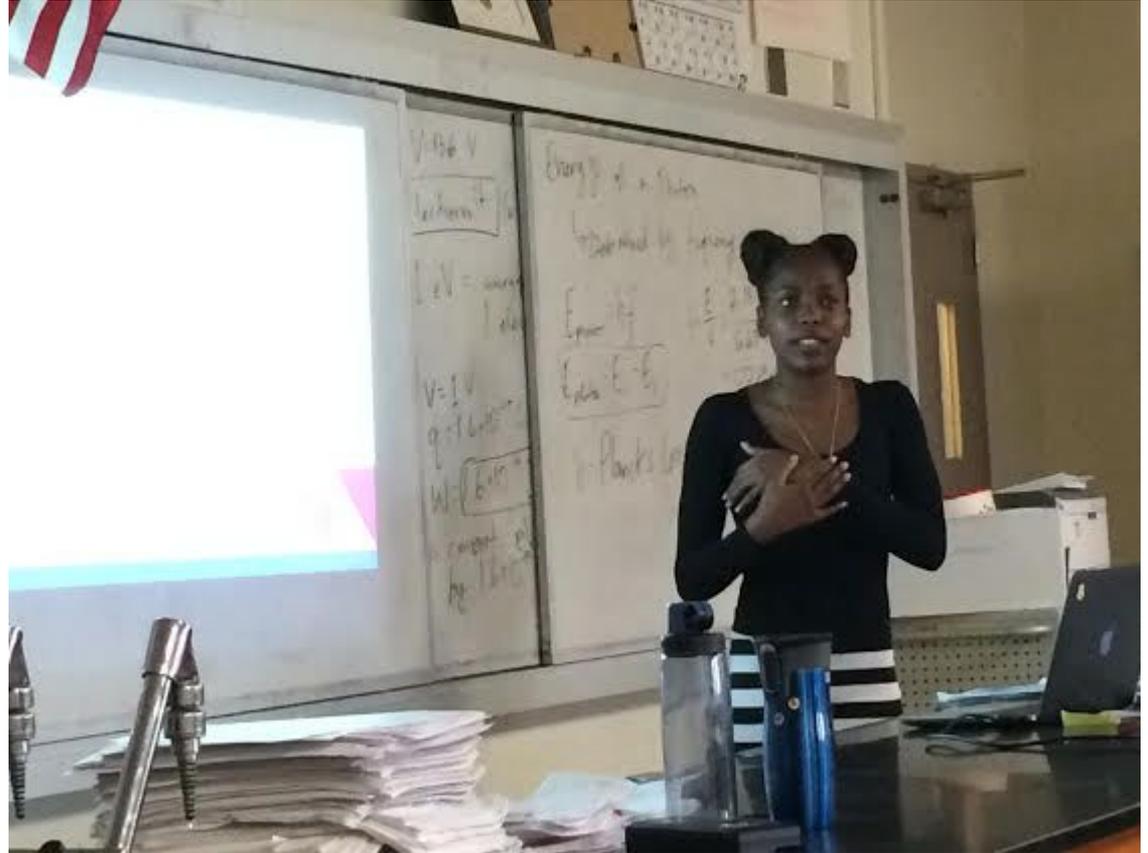
- June 2016
- Collegiate Institute students met the goal of presenting their research to EHS students.
- Collegiate Institute students demonstrated their willingness to work above and beyond their school curriculum



- Collaborative audience
- Questioned, critiqued and congratulated



- So passionate about topics
- Most motivated by personal experience i.e. a family member with the disease being studied
- First experience presenting to an audience
- Some students practiced with partners via telephone



- 2016 - 2017
- Continuing partnership with many of the same students
- First visit in October
- Students discuss goals for this school year
- Article presentation to include a display poster



- Approximately 25 Collegiate Institute students matched with EHS Science Scholars



- Will continue to communicate via email and telephone
- Visit every 6 - 8 weeks



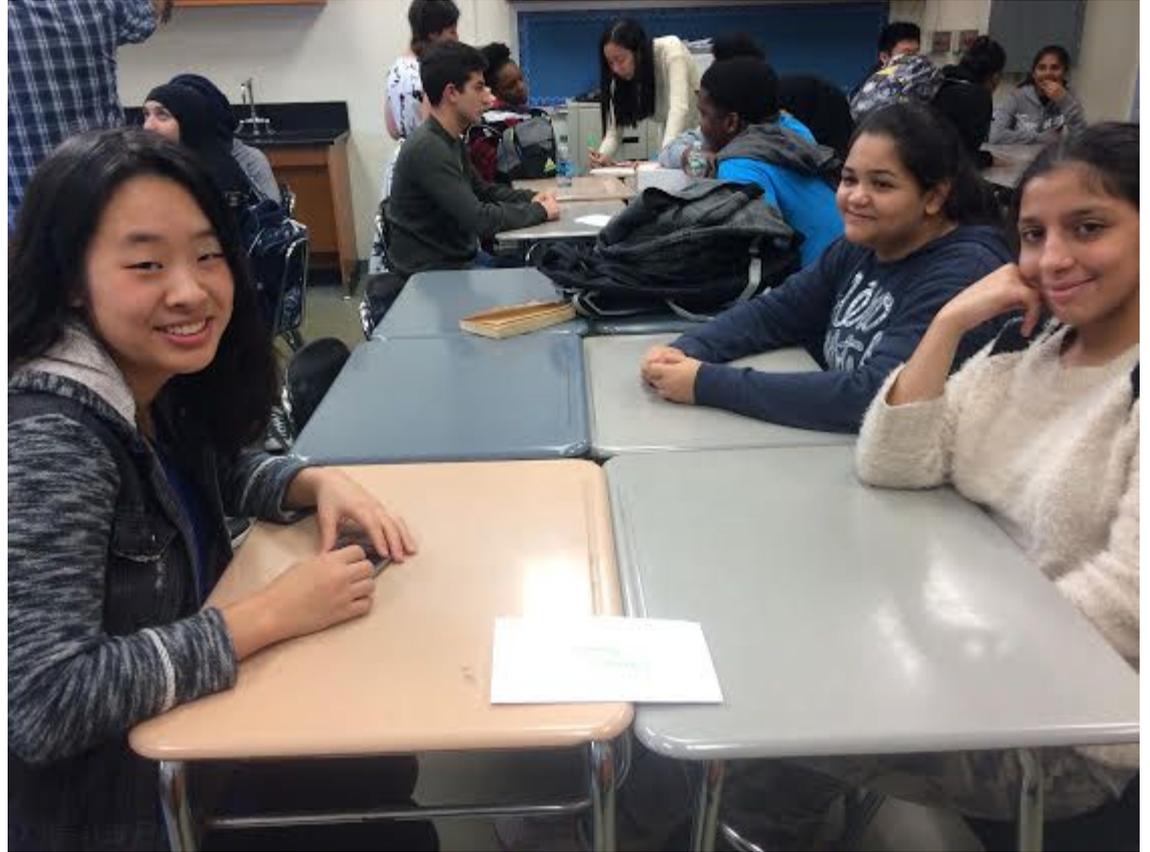
- Collegiate Institute students hoped to visit EHS Science Scholars Symposium in January
- A “private showing” before the public program begins
- Evening public transportation issues concerned parents



- Authentic learning
- Fostering students as local and global citizens



- Respectful alliance
- Equal partners
- Active student participation

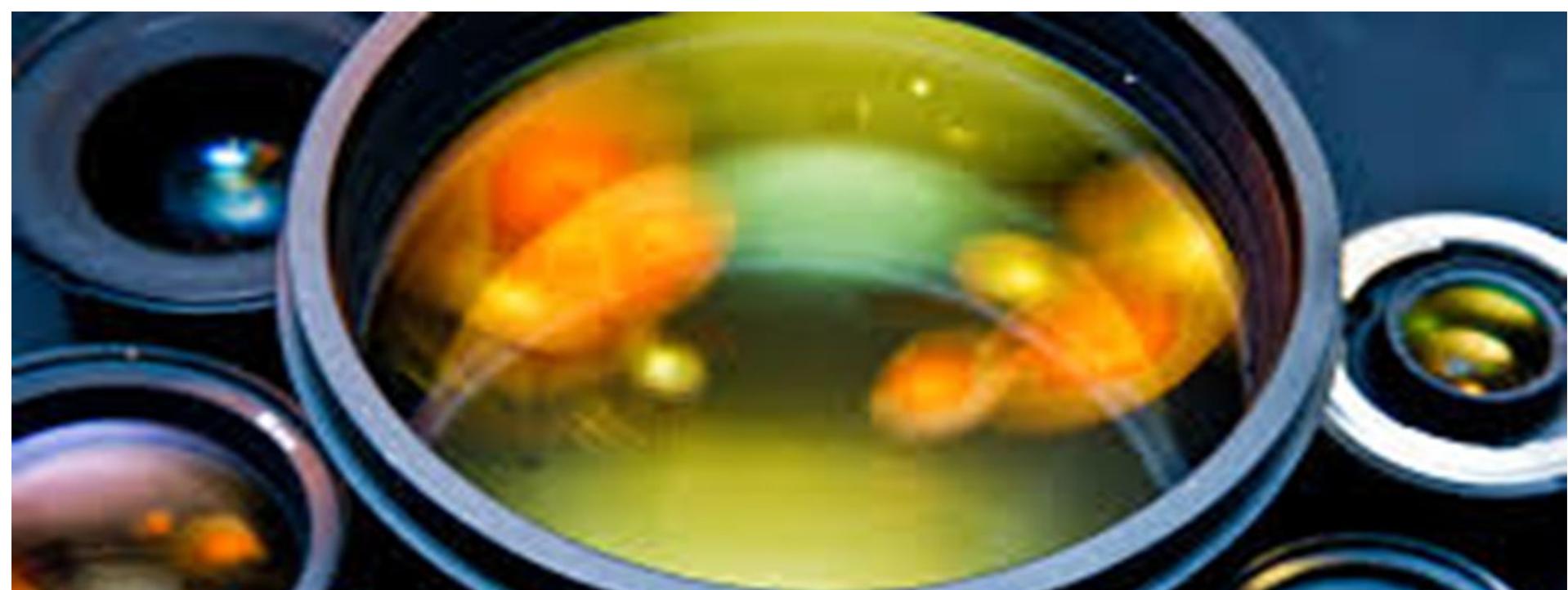


- Cognizant of educational & cultural differences
- Results will make a difference for both groups of students
- Reflect on interaction as partners and not “haves and have nots”





"You've got to think about big things while you're doing small things, so that all the small things go in the right direction." - **Alvin Toffler**



The lens through which we view all work is to systemically provide a culture of learning that reflects each student's needs, interests, abilities and voice for the academic and social-emotional development of the whole child.



# Technology

**Provide infrastructure, equitable access, professional learning, and technical support for the integration of technology to promote creativity, collaboration, communication, and critical thinking**



# Professional Development

Develop purposeful structures and allocate time to link collaborative professional development to student needs.

From Antoine, Buc, France:

*“How are you after the strong storm Sandy? I hope you don't have too much damage in your home.”*

From Zachary, EHS:

*“L'orage a été très grand. Ma famille et moi ont eu de la chance parce que nous n'ont pas perdu l'électricité. Beaucoup de mes amis ont perdu l'électricité et aujourd'hui, nous sommes allées à l'école (l'école n'a pas eu l'électricité pour 8 jours).”*



# Local/Global Citizenship

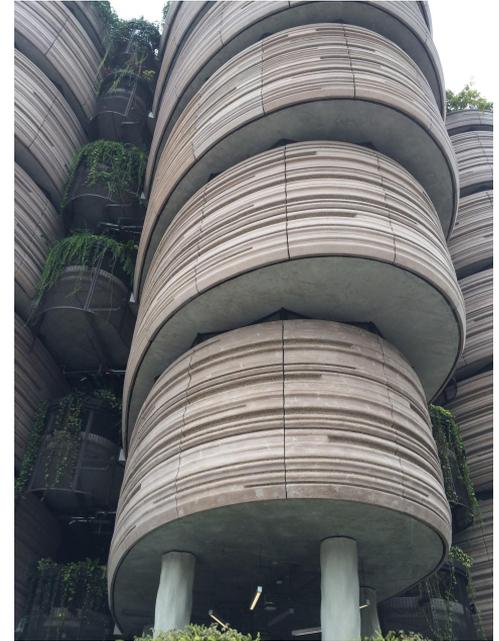
Create authentic opportunities to foster students' understanding of their roles as local and global citizens.

# The Global Learning Alliance



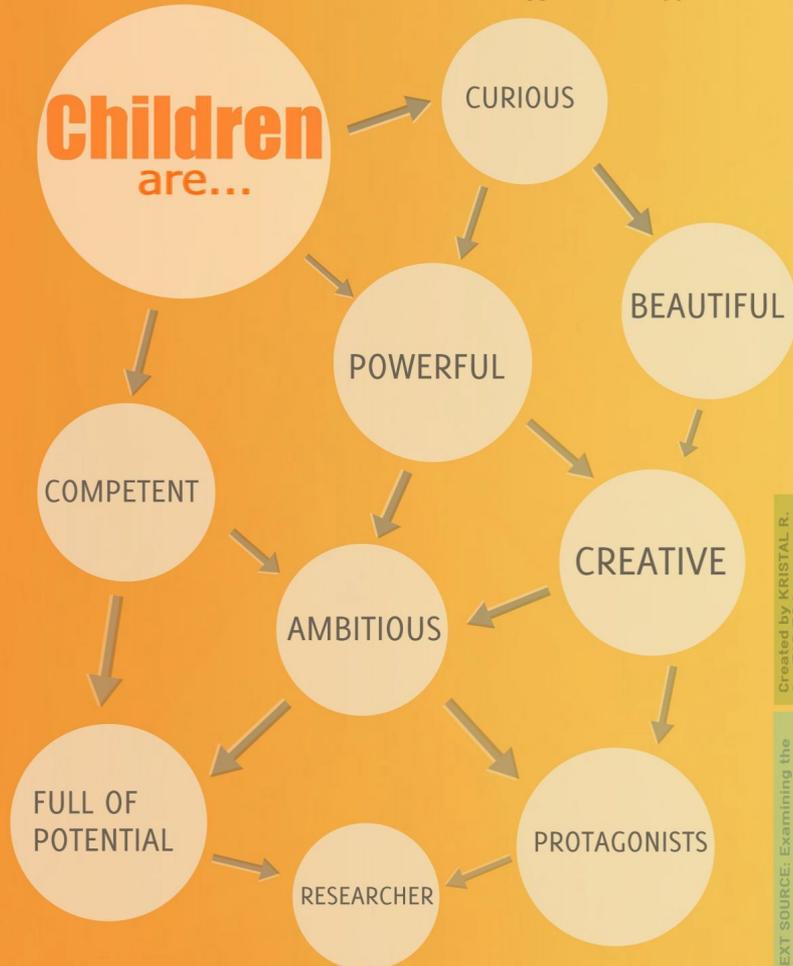
# Global Learning Alliance - Activities

- Simulation: Response to a refugee crisis
- Report on Scarsdale-Hwa Chong project
- Learning Journeys to Duke-National University of Singapore Medical Center, GlaxoSmithKline, Nanyang Technological University Learning Hub, Hwa Chong Institution
- Sharing of best practices
- Closing panel



# THE VIEW OF THE CHILD

*Reggio Emilia Approach*



Created by KRISTAL R.  
for EAD 504

TEXT SOURCE: Examining the  
Reggio Emilia Approach

# Reggio Emilia, Italy

- Based on Piaget's philosophy of constructivism theory
- Suggests that learners construct knowledge out of their experiences.
- The approach promotes active learning, or learning by doing.

## The Reggio Emilia approach to early childhood education:

- Gives the student ownership and purpose over their learning.
- It was developed after World War II by a psychologist Loris Malaguzzi, and parents in the villages around **Reggio Emilia** in Italy.
- Is an educational philosophy based on the image of the child, and of human beings,
  - As possessing strong potentials for development
  - And as a subject of rights who learns and grows in

***Solar-powered 'supertrees'  
breathe life into Singapore's  
urban oasis***

**-CNN, June 10, 2015**

