

Project Name: Providing Better Study Environment for Student in Need
Worldwide and Mentor them on Water Quality

Big Idea: Provide better learning environment worldwide

Essential Question: How can we level set the learning resources and
expectations to students in need worldwide?

Team Members: Nicole H.

School/Organization Name: Innovation International

Location (City, State/Province, and Country): Saint Augustine, FL, USA

Engage:

There is a big inequality regarding the resources available for students worldwide. Students in developed countries tend to have more resources and the difference can be immense.

Within the same country, there is still a difference between students living in wealthy areas compared to students living in poor areas.

Differences in resources allocated also exists if we consider students with special needs.

Engage:

These inequalities affect the quality of life for everyone on the planet because an underdeveloped region will drag the problem to everyone.

It is also important to consider the students with special needs with focus on using the skills and capabilities where they excel and this is on a case-by-case basis.

This subject was chosen because an equal opportunity environment is very important to create a more just and better world for all the population of our planet.

Investigation:

One of the basic needs regarding education is to have a basic environment that enables you to succeed.

The world is faced by several different situation that will require a different level of investment, depending on the specific needs for that region.

Those differences include hunger, poverty, and natural disasters such as hurricanes, typhoons, floods, wildfire, storms, earthquakes.

Investigation:

Part 1: Provide basic resources to improve studies

Case study:

- Ghana has problems with non-stable electric power in certain regions
- Brazil has isolated poverty areas called favelas where electric power is also non-stable
- Philippines has several natural disasters such as typhoons, earthquakes, volcanos, floods, that cause electric power disruption for long times

Investigation:

Part 1: Provide basic resources to improve studies

Additional Case study:

- Students with special needs from Ocala, FL, USA
- Students with special needs from Tagaytay, Philippines

Investigation:

Part 2: Research on water quality

Case study:

- The region of Accra in Ghana depends on the water resources from the Pra river
- The region of Vitoria in Brazil depends on the water resources from the beaches nearby
- The region of Tagaytay in the Philippines is in constant threat from the Taal volcano which is situated in the middle of a lake

Action:

Part 1: Provide basic resources to improve studies

Solution:

- Provide better study environment
- Mentor students on renewable energy



Action:

Part 1: Provide basic resources to improve studies

Pilot Delivered:



Accra, Ghana – Nov. 2025



Alcala, Philippines – Dec. 2025

Action:

Part 1: Provide basic resources to improve studies

Feedback received from the Pilot Program (in their own words):

- Parents: “At first they used to buy candle when light is out but now they can save that money for something else, their teachers do not complain of missing out home and school assignment, in all the LED lights has been helpful.”
- Students: “The children also said that getting the LED lights has really helped them alot, since they received LED lights friends have been coming to them for group studies and home assignment whenever there is light out in the community and the school premise, this has brought joy in the face of the children.”

Action:

Part 1: Provide basic resources to improve studies

Planned Recipients:

Recipients	Organization	Location
20 students with special needs	Champions for Champions	Ocala, FL, USA
60 students with special needs	Tagaytay City Special Education Center	Tagaytay, Philippines
50 students in need	Don Mariano National High School	Alcala, Philippines
50 students in need	EEEM Irma Maria Horta	Vitoria, Brazil
57 students in need	Greater Grace Child and Youth Development Center	Accra, Ghana

Action:

Part 1: Provide basic resources to improve studies

Funding Required:

Recipients	Organization	Funding (US\$)
20 students with special needs	Champions for Champions	200
60 students with special needs	Tagaytay City Special Education Center	600
50 students in need	Don Mariano National High School	500
50 students in need	EEEM Irma Maria Horta	500
57 students in need	Greater Grace Child and Youth Development Center	570

Action:

Part 2: Research on water quality

Solution:

- Mentor students on water quality
- Each location will have a different objective targeting the specific needs for that location
- No pilot delivered for this part of the project



Underwater Camera



Water quality meter (acidity, temperature, salinity, dissolved oxygen)



Future development of a transport vehicle for the water quality meters

Action:

Part 2: Research on water quality

Planned Recipients:

Recipients	Organization	Location
2 students	Parkside Elementary School	Columbus, IN, USA
4 students with special needs	Tagaytay City Special Education Center	Tagaytay, Philippines
4 students	EEEM Irma Maria Horta	Vitoria, Brazil
12 students in need	Greater Grace Child and Youth Development Center	Accra, Ghana

Action:

Part 2: Research on water quality

Funding Required:

Recipients	Organization	Funding (US\$)
2 students	Parkside Elementary School	200
4 students with special needs	Tagaytay City Special Education Center	200
4 students	EEEM Irma Maria Horta	200
12 students in need	Greater Grace Child and Youth Development Center	200