



CASA  
GUADALUPE  
CENTER

Changing the Lehigh Valley One Person At A Time

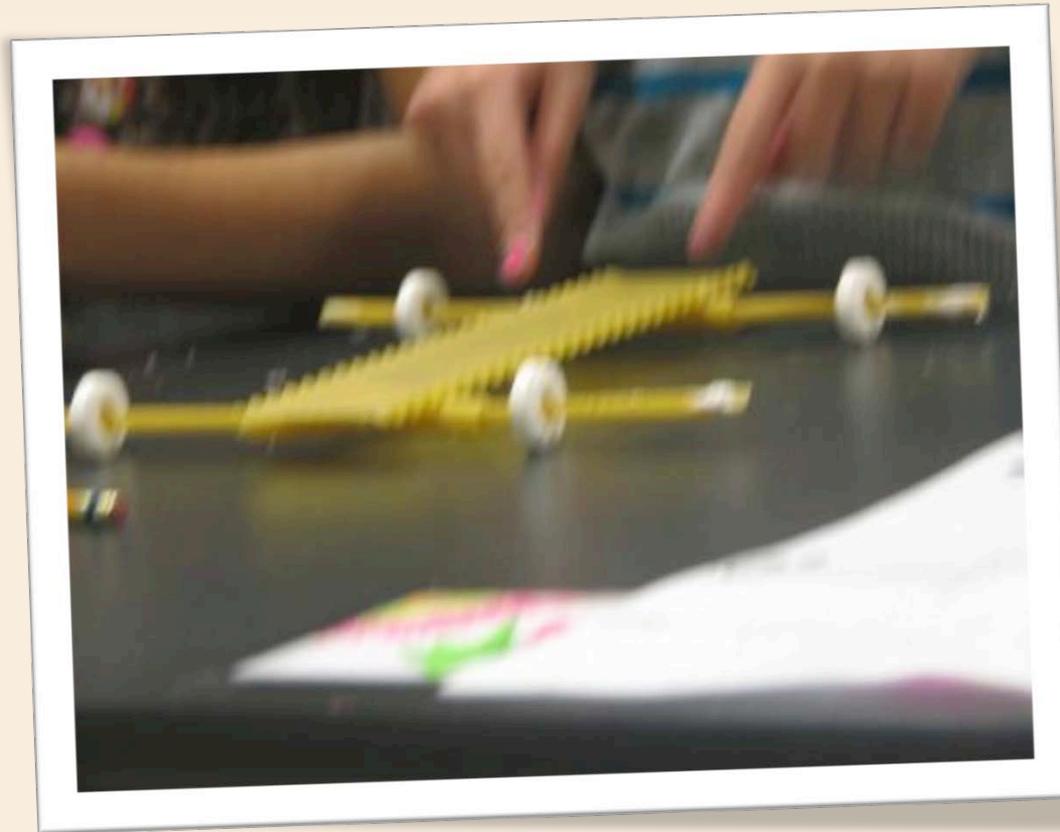
# Education Program 2012-2013



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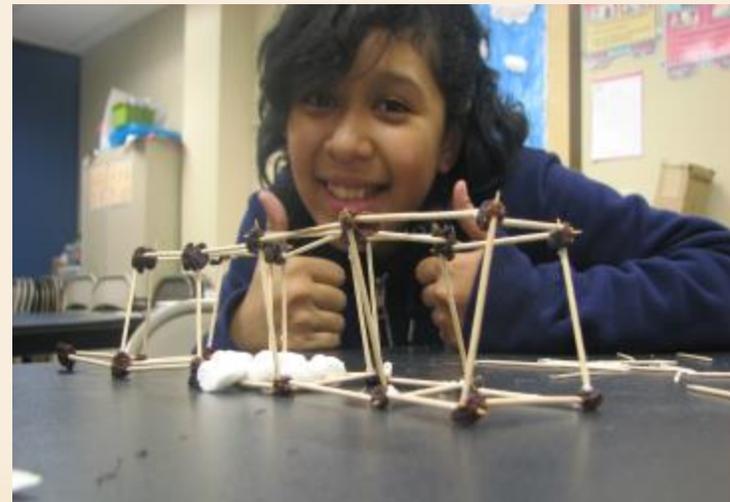
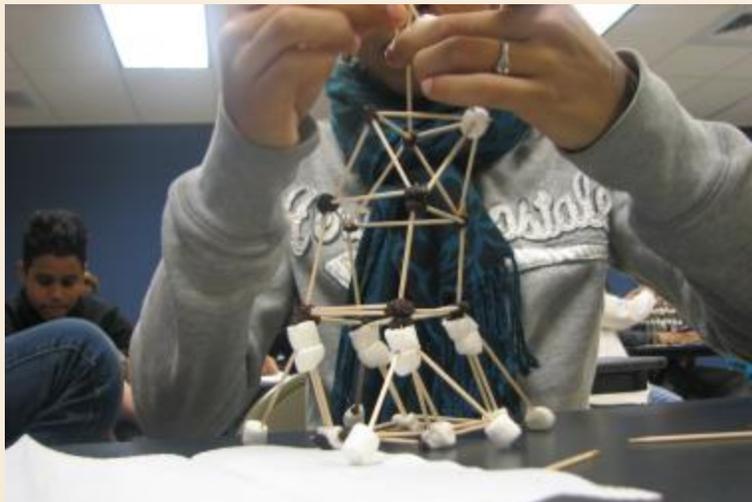
## STEM at Casa

Students engaged in many different STEM (Science, Technology, Engineering and Mathematics) activities created by Casa staff.

We created a car entirely of pasta,



and designed and built structures with toothpicks, raisins and marshmallows!





## Entrepreneurship Program

We had another exciting Entrepreneurship Curriculum this year. The focus of the program was the Entertainment Arts Industry. Students were assigned to create a production company with all of the main aspects that go along with it. Students created the foundation for the company by assigning a CEO as well as other positions. There were students in charge of marketing, production, budgets, and the actual creation of an animated movie!

# Entrepreneurship Program: Movie Posters





## Wildlands Conservancy

This year we partnered with the Wildlands Conservancy who provided our students with education on wildlife and nature preservation. The following pictures tell an exciting story of our experiences with them!

## Stream Study

We had the opportunity to catch and examine invertebrates from a stream!



We also had the opportunity to interact with live animals!





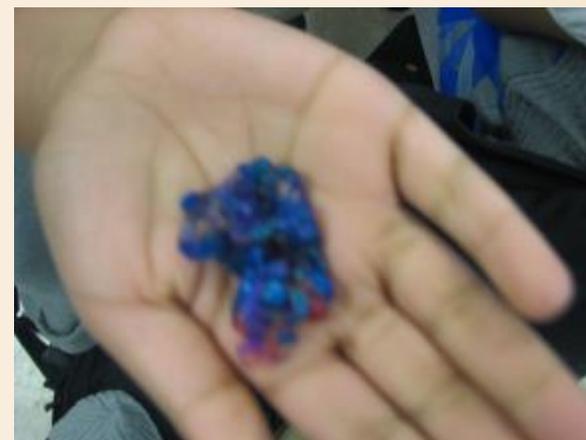
## Da Vinci Science Center

We also continued an exciting partnership with the Da Vinci Science Center. Their experts provided our students with hands-on STEM projects in the areas of Chemical Interactions, Alternative Energy, Brains and Veins, Architecture, Crime Scene Investigation and much more!

We were given planks to build structures,



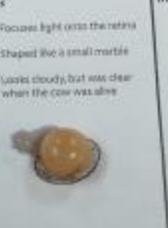
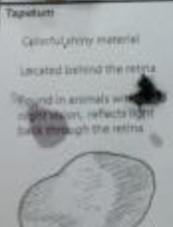
and mixed chemicals to create different substances!



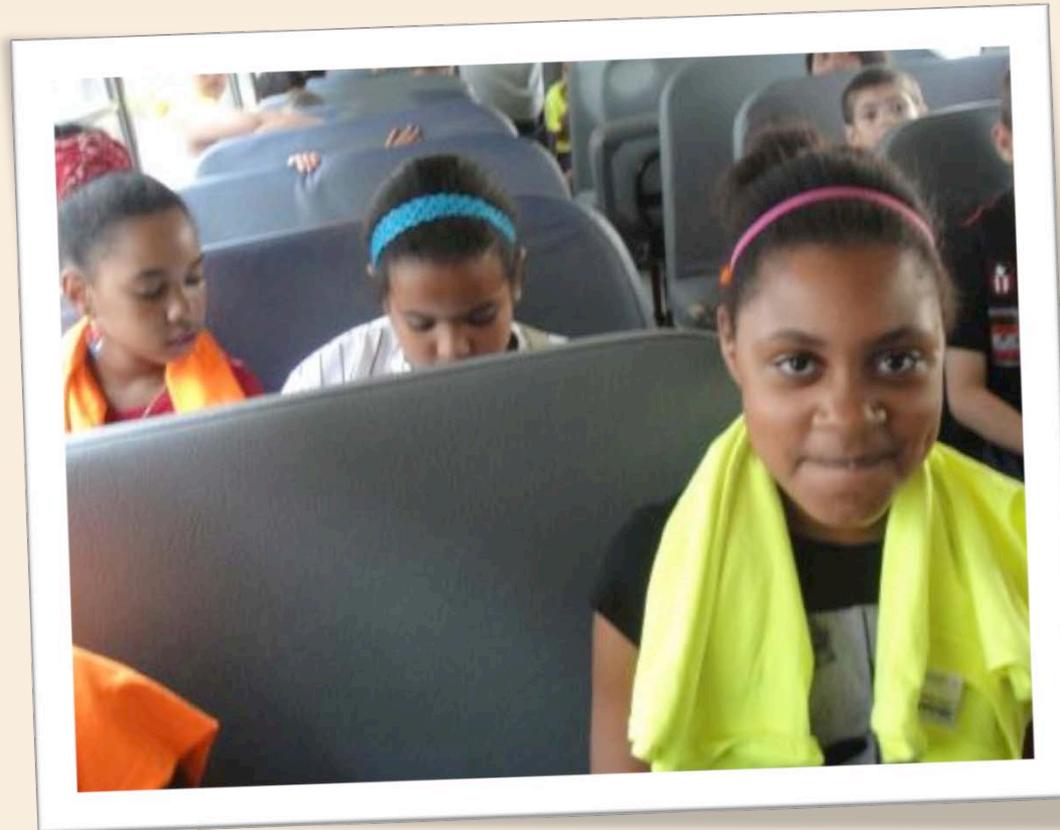
# We also had an exciting time dissecting cow eyeballs!



**Cow's Eye Dissection Guide: Place each part of the eye in the box that describes it.**

<b>Sclera</b> Opaque 	<b>Cornea</b> Tough Transparent Lets light enter the eye 	<b>Lens</b> Focuses light onto the retina Shaped like a small marble Looks cloudy, but was clear when the cow was alive 	<b>Iris</b> Controls how much enters the eye Shaped like a ring Hole in the pupil 
<b>Tapetum</b> Colorful, shiny material Located behind the retina Found in animals with night vision, reflects light back through the retina 	<b>Vitreous Humor</b> Thick, clear jelly Helps the eye keep its shape 	<b>Fat</b> Surrounds the back of the eye Cushions and protects Lets light pass through 	<b>Retina</b> Thin membrane the back of the eye Detects images Transforms them into nerve signals to the brain 





## Field Trips

Here at Casa, we were able to provide our students with unforgettable experiences on field trips. This past year we visited the NASTAR Science Center, The Franklin Institute of Technology, Longwood Gardens, The Da Vinci Science Center, The Wildlands Conservancy, and to Coca-Cola Park to see the Iron Pigs. They had the time of their lives!

We had the PPL Picnic Section at the Iron Pigs game,



And some nature fun at Longwood Gardens!



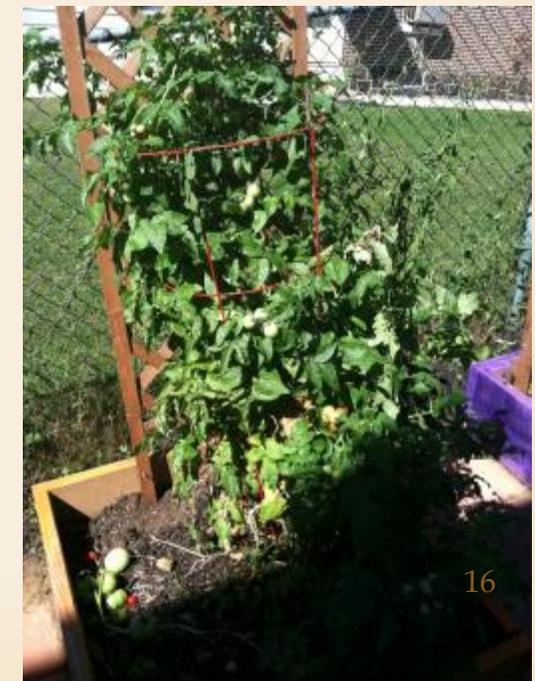


## Volunteers and Tutors

We are honored and privileged to have the extra help we get from our tutors and volunteers. This year we had over 800 man hours given to us by different institutes and organizations including PPL, Muhlenberg College, De Sales University, Air Products as well as others.



This year, PPL went over and beyond to give us a children themed garden with planted flowers and vegetables, a beautiful pathway and an extravagant mural!



PPL also sponsored our Christmas party and brought Santa for a visit!



We got to go to Muhlenberg College for their special events Big For a Day and Girls in Sports!





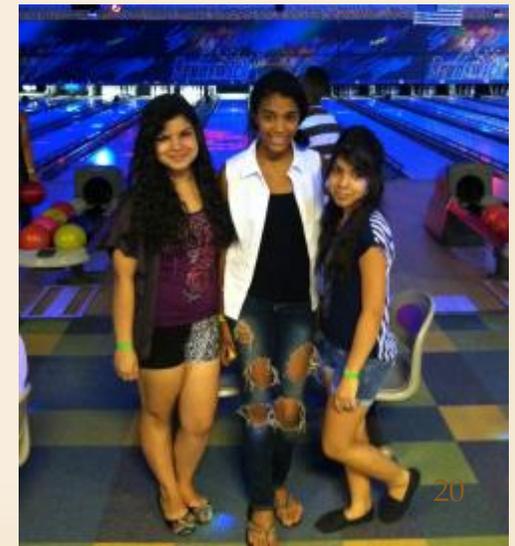
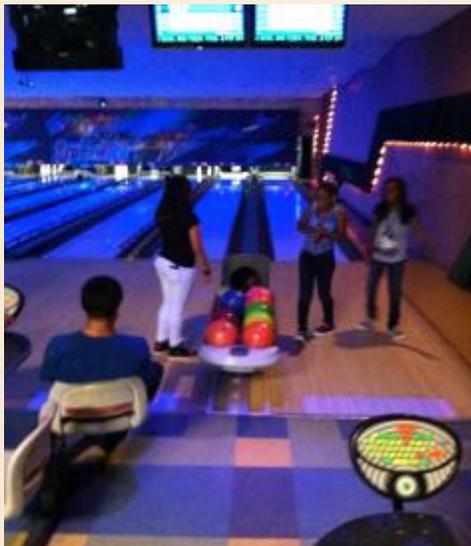
## Summer Fun

This summer we had a fun and exciting mix of education and recreational activities.

We had passes to Cedar Beach Pool,



And went bowling each week!



We had organized sports,



And hung out with friends!



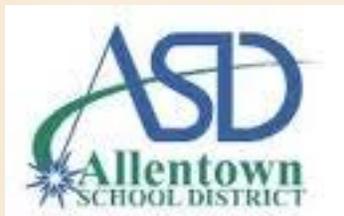


## Writing Projects

With the financial help of Crayola, Embassy bank and others, the Middle and Elementary School classes had writing and art projects to complete over the summer. The Middle School students were given an assignment called "The Best Part of Me" where they took a disposable camera home, took a picture of some things that represent them, and published a page using Canvastic, a new software we purchased for our new Mac computers.

The Elementary group had an assignment called "If I were a Superhero..." where they wrote a passage and drew a picture of themselves in that role.

We would like to thank all of our partners  
for making this year possible!







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the BEST  
is yet TO  
come