



Unit 4: Communicating with Sound and Light
Week 7: How do inventors and innovators make a difference?

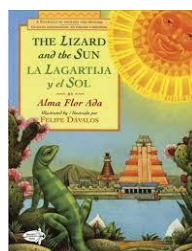
Dear Families,

This week we are learning about how people use light. We are also learning about inventors! Here are some activities to do with your child this week. When you do an activity, check the box. You don't have to do every activity and you can do any of them more than once. Remember to make time for reading, too! Please help your child return this Family Links to school at the end of the week. We hope you enjoy learning with your child!

This week we are reading...



Marvelous Mattie: How Margaret E. Knight Became an Inventor
by Emily Arnold McCully

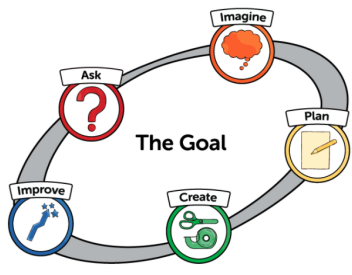


The Lizard and the Sun
by Alma Flor Ada

This week's books are a biography and a folktale. There are so many stories about inventors and stories about how people think about the power of light! Go to the library or look on your bookshelf at home to find books about inventors.

Your child is practicing reading the poem "Garrett Morgan" (attached). Read it together!

| Reading Log | |
|---|--------------------|
| Your child can read to you, and you can read to your child. | |
| <i>It's always a good idea to read a book many times. We can find something new in a book each time we read the words or look at the illustrations.</i> | |
| Title and Author | What do you think? |
| | |
| | |
| | |

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|---|--|--|
| <p>Go outside <input type="checkbox"/></p> <p>Go outside and see if you can find 10 different inventions that use sound. Make a list.</p> <p>Is sound used in the same ways indoors?</p> | <p>Talk about... <input type="checkbox"/></p> <p>... a kind of technology that you use that works with sound. Why is this technology important to you? What would you do if you didn't have it? What would you use instead?</p> | |
| <p>Tell a story <input type="checkbox"/></p> <p>Imagine an inventor. Tell a story about how that person became an inventor, what that person invented, and something that happened with their invention.</p> | <p>Read together!</p> <p>at least 20 minutes every day</p> <p>Record your reading on the back of this page.</p> | <p>Play with math ideas <input type="checkbox"/></p> <p>Keep a journal of time with your family. Record the time you do different things with them. Record the time on an analog clock and a digital clock.</p> |
| <p>Explore science and engineering <input type="checkbox"/></p> <p>Tell a family member about the steps in the Engineering Design Process. Make something together using this process!</p>  | <p>Play with words; grow a reader <input type="checkbox"/></p> <p>Some of our Weekly Words are engineer, invent, improve, innovate, creativity, and persevere.</p> <p>You are working on your own inventions at school. Use some of these words in sentences to describe your invention work.</p> | |

Child's name _____ Adult's name _____

Vocabulary



engineer

<https://www.pinterest.co.uk/pin/477381629243445290/>

someone who designs and builds engines, machines, or structures



invent

https://www.washingtonpost.com/lifestyle/kidspot/museum-helps-kids-learn-skills-to-invent-the-future/2018/10/29/5c64e490-d6e6-11e8-83a2-d1c3d428d6b6_story.html

to create or design something that did not exist before



improve

<https://articles.bplans.com/10-tips-to-improve-business-efficiency/>

to make better



innovate

iniorplanet.org/not-your-grandpas-a-hearing-aid-history/
<https://www.retirementliving.com/hearing-aid-technology>

to make changes in something that already exists



creativity

<https://www.naeyc.org/resources/blog/making-tinkering-and-toy-store-project>

the use of imagination, such as to design inventions, produce art, and solve problems in new ways



persevere

<https://mystudentvoices.com/how-to-persevere-like-a-4-year-old-adb1e418bde3>

to keep trying in the face of difficulty



Teachers Need:

- This week's Family Link (front and back)
- Vocabulary Sheet
- "Garrett Morgan"

Garrett Morgan

by Brooke Childs, modified from "Inventors in Black" by Vicki Hall

The streets back in 1920

Had cars, buggies, and bikes a plenty.

No lights or stop signs caused lots of messes,

Walkers were scared in their old-fashioned dresses!

When the flow of traffic was out of hand,

Inventor Garrett A. Morgan came up with a plan.

He stopped us on red, started us on green,

Kept us all safe, with yellow in between.