

Mandala School Newsletter

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Happy
Birthday
Sarah!



Left: Ria's book report presentation based on *The Lord of the Rings*. She created a board game based on the book!

Astrology is a lot about the stars. We were mainly talking about astrology because we were talking about zodiac signs. You may ask again what are zodiac signs? Zodiac signs are a huge part of astrology. Your zodiac sign can tell a lot about you if you believe in it. Do you believe in zodiac signs or Astrology? By Katelyn



STUDENT OF THE WEEK: STARLIGHT

Starlight is a very nice person. She is five years old and this is her first year at Mandala. Starlight is funny, sweet, and a really good friend. She loves to draw pictures, especially of Miss Kelsey or her friends. She also loves to give people special drawing gifts that they can take home. She is really creative.

Her favorite foods are red apples and cotton candy ice cream, and her favorite animal is a tiger. She likes tigers because they are beautiful. She loves the color blue. Sometimes she does puzzles, her favorite one is Mickey Mouse. Candy Land is a very fun game too. She also likes to play with her dog stuffy, Doodles.

Starlight's favorite place is the zoo. She enjoys seeing the giraffes, tigers, zebras, and elephants. When she is at home, she colors, plays games, and watches Lion King.

She loves to give hugs at school and to paint with Ms. Jeannet. On rainy days, Starlight likes to hang out with her grandma. She doesn't like dinosaurs because she is allergic to them.

Starlight likes to learn math. Right now they are counting and building numbers bigger than ten! Every morning when Starlight eats breakfast she says, "**I am kind. I am smart. I am beautiful. I am safe. I am loved. I am special. I can learn hard things!**" And she is right about that!

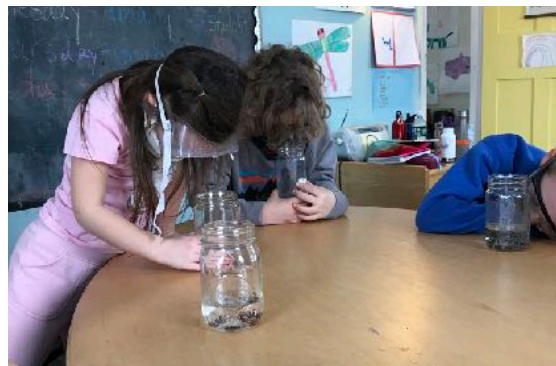
Interviewed by: Flora, Graham, Kyle and Bryce



We are learning about energy. Hydro energy is energy from the movement of water. Moving water can go through a turbine and then get converted into electricity. We made our own models with a funnel, four plastic cups, 4 paper clips, string, a skewer, tape, and corks. We had to use the power from the water of the faucet to make something that would lift a small object up. There was a planning day, two building days, and a test day! By Sachin



right: the youngest scientists are learning about the three states of matter: solid, liquid, and gas. They did 4 neat experiments this week!



Similar Rectangles by Sachin, Nolan, & Dr. John

Research question: How are similar rectangles related?

Procedure

- 1) Make a 2x3 rectangle. Repeat by doubling, tripling, quadrupling,... the sides (See picture)
- 2) Compare the areas of the rectangles
- 3) Look for patterns

Analysis

Rectangle	Area	differences	difference of differences
A	6 sq		
B	24 sq	18	
C	54 sq	30	12
D	96 sq	42	12
E	150 sq	54	12

We noticed that the smallest rectangle A can be found inside all the bigger rectangles. If A is one rectangle, then B has 4 A rectangles inside it and C has 9 A rectangles.



Rectangle	Number of A inside	differences
A	1	
B	4	3
C	9	5
D	16	7
E	25	9

The number of A rectangles inside the bigger rectangles are SQUARE NUMBERS!

This type of problem lays the foundation for number theory, analytical geometry, and calculus.
DJ

