A School's Journey: The Difference Space Grant Can Make

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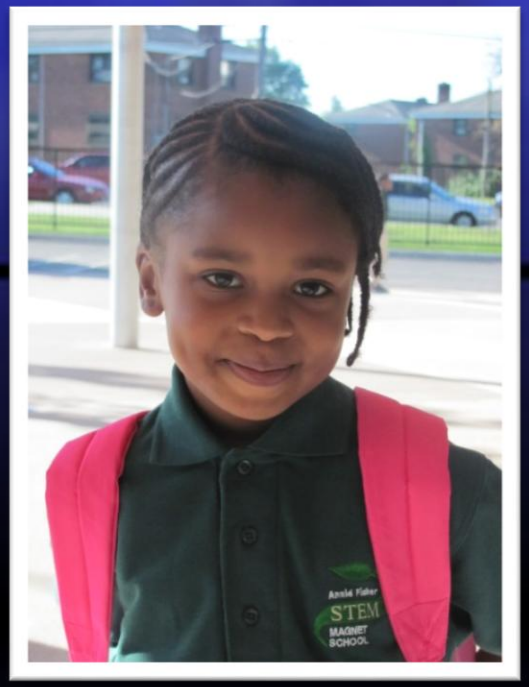
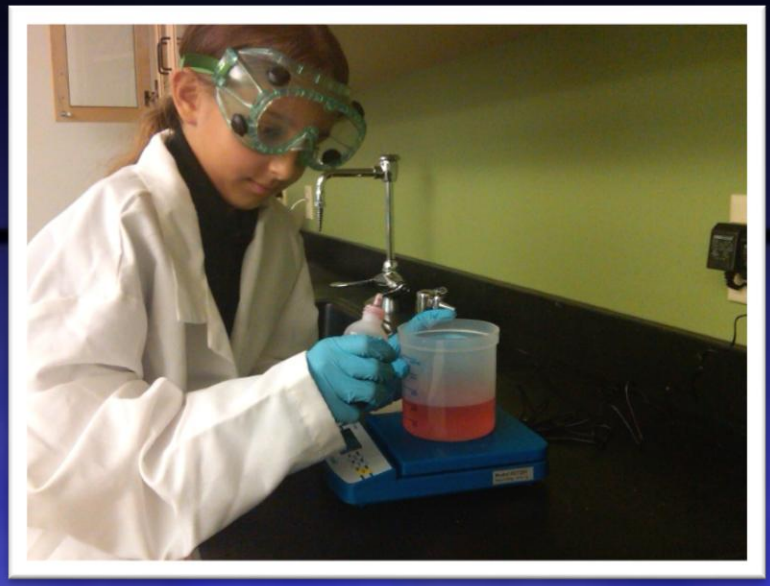
" We had so many other things to teach that I just could not get to teaching science. We had to teach reading and math, so there was no time for science."

Mrs. Bolton, First Grade Teacher

The Journey Begins





Inquiry :the Heart of STEM Education

True Inquiry: Authentic Student Research

Student Questions

Does microgravity effect muscle systems of *C.elegans* when given the supplement Creatine?

Does Algae grow more rapidly in Space or on Earth?

Does parathyriod hormone affect bone loss in a microgravity environment?

Will a microgravity will change the density of the liquids?

How does microgravity affect the production of synthetic insulin?

Does calcium carbonate in a microgravity environment decrease bone loss in osteoblasts?

How does microgravity affect the bioluminescence of *E. coli* genetically modified with GFP?

SSEP in Action

Career Choices

“Inquiry has changed my teaching. I used to not like teaching science, but now I love it. Just look how excited my students are!

Mrs. Bolton,
First Grade
Teacher

Nationally Award Winning School

- **MSA School Excellence**
- **MSA School of Distinction**
- **National Blue Ribbon School**

Where Did This Teacher Get Her Start?

- 2 NASA Achievement Awards
- AIAA Aerospace Educator of the Year
- CAP National Aerospace Teacher of the Year
- National Space Club National Aerospace Educator of the Year
- Selected as a TIS Pathfinder Commercial Astronaut

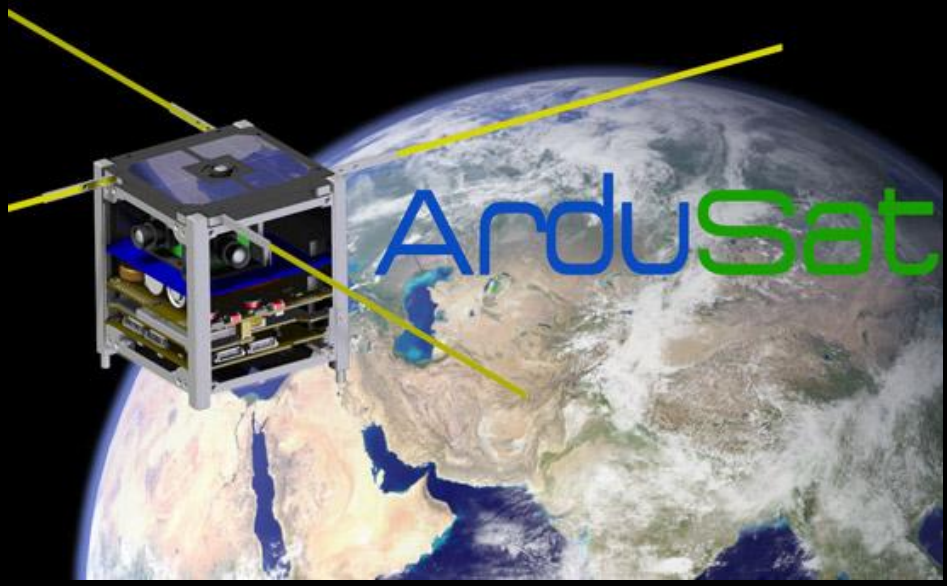
This Year:

Scott Crossfield National Aerospace Educator of the Year by the National Aviation Hall of Fame

Commercial Astronaut Training

Teacher Workshops

Tremendous Opportunity on the Horizon



You are transforming STEM Education.