



edventures!™



EXPERTS IN
HANDS-ON
STEM EDUCATION



ENGAGEMENT STRATEGIES FOR STEM EDUCATION

WEBINAR

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Jim Schmidt

EdD, Educational Specialist

Over 20 years of experience in
public school education and
administration

Panelists



Dori Atterberry

1st Grade Teacher
Galileo STEM Academy



Jill Janicek

2nd Grade Teacher
Galileo STEM Academy



Guy Falconer

Design Technology Educator
Sage International School

Who We Are

PCS Edventures History

Started as Pat's Computer School in 1988

Grew to network of experiential learning centers in Idaho, Washington and California

PCS Edventures learning solutions are now in more than 7000 sites in all 50 states and over 17 other countries

Philosophy of hands-on projects that fuel a passion for learning and a lifelong love of STEM



Who We Serve

- K-12 educators in classrooms
- After-school programs
- Libraries and makerspaces
- Youth groups such as FFA, Boys & Girls Club, 4H, etc



What is STEM?

To raise new questions, new possibilities, to regard old problems from a new angle, requires creative imagination and marks real advance in science.

- Albert Einstein

Equipped with his five senses, man explores the universe around him and calls the adventure Science.

- Edwin Powell Hubble

What is STEM?

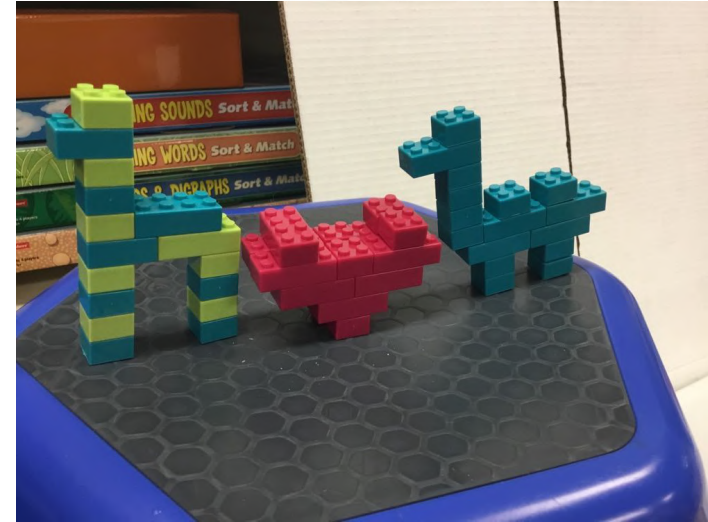
- Hands-on
- Integrated Approach
- Relevant to Learner
- Panelists' Perspectives

Time Management



Morning Centers

- STEM and 21st Century Skills
- Build It; Create It; Make It;
Model It; Practice It; Read It



Cardboard Challenge

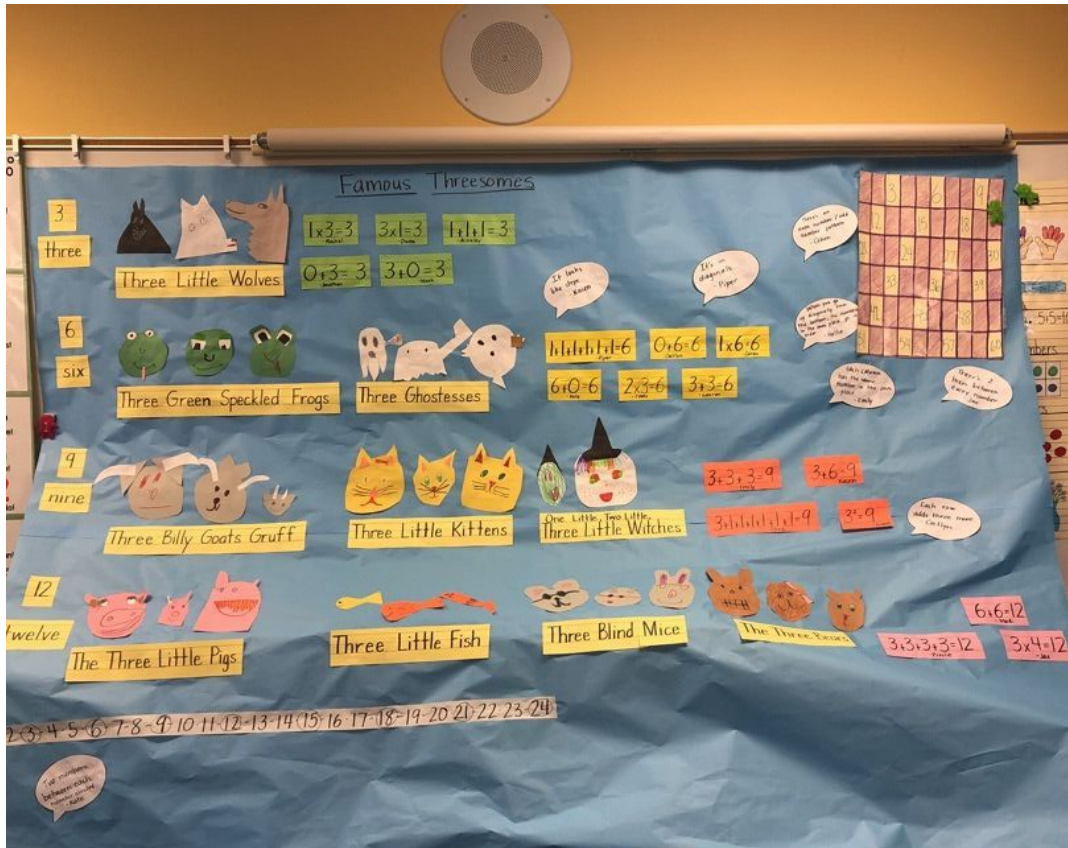
- Arcade games
- Other classes come and pay-to-play with pretend money
- Pretend money earned to shop at 2nd grade store



BrickLAB

- Two systems for using bricks
 - Individual
 - Class Tub
- Builds can be added to any lesson
- Students pose questions or problem
- “Let’s see what might work.”





Project-Based Learning: Famous Threesomes and Three Billy Goats Gruff

Dori - Elementary

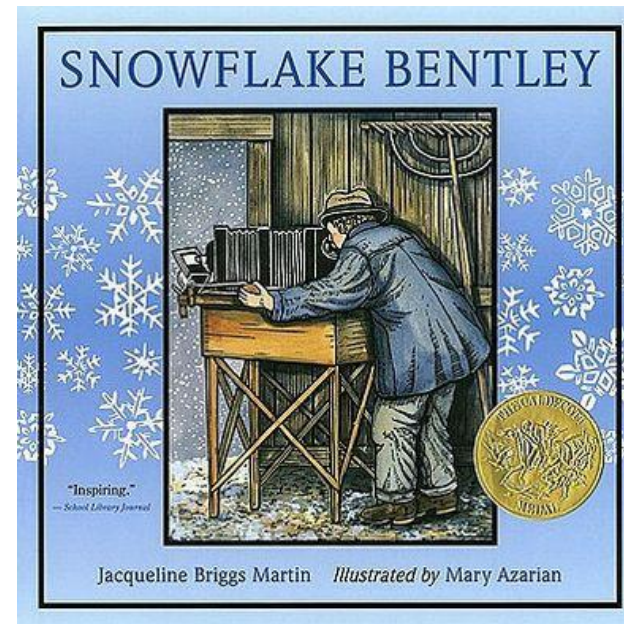
ELA (Literacy & writing), math,
engineering, building, and creating

Next Generation Science Standards
with cross-curricular connections



Snow Village: Project-Based Unit

- Brick build of a snowflake & building in village
- Writing Activity -
Step-by-step directions:
How to Build a Snowman

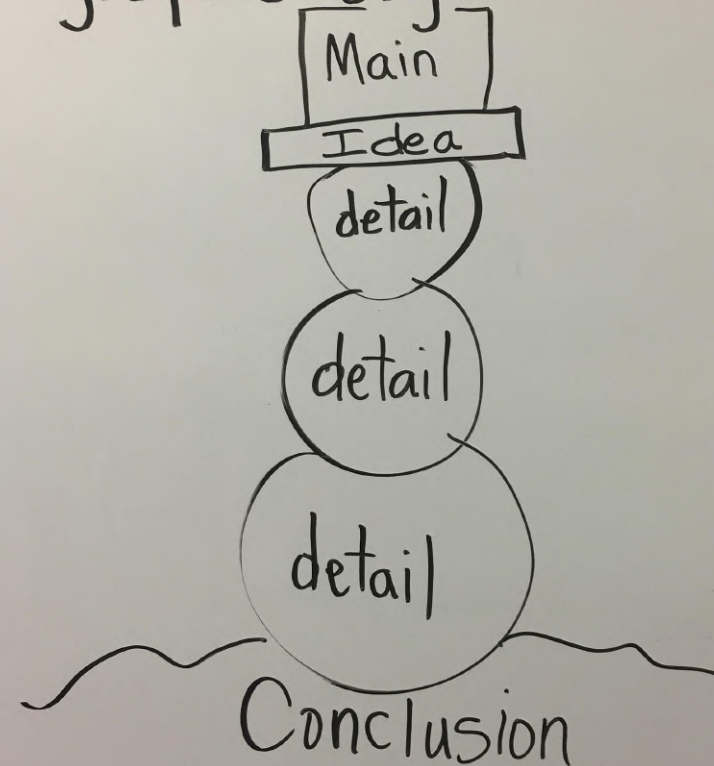


Snow Village:

Project-Based Unit

- Creative writing about snowmen coming to life
- *Snowmen at Night* by Caralyn Buehner

Snowman pre-write
graphic organizer



Snow Village: Project-Based Unit

- Field trip to Watershed - water cycle and drinking water
- Presentation
 - How does my building help the snowman community?
 - Graded by Rubric

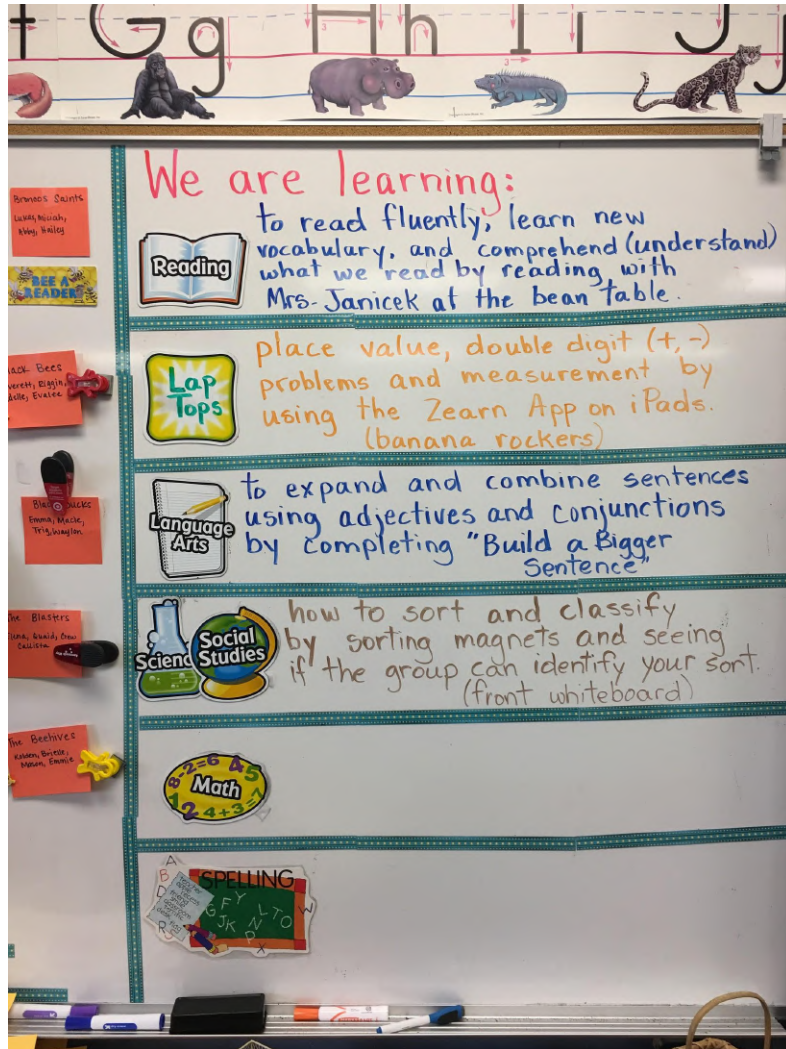


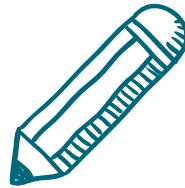
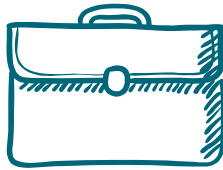
If you're lucky, build a snowman!

Brick Organization



Jill - Elementary

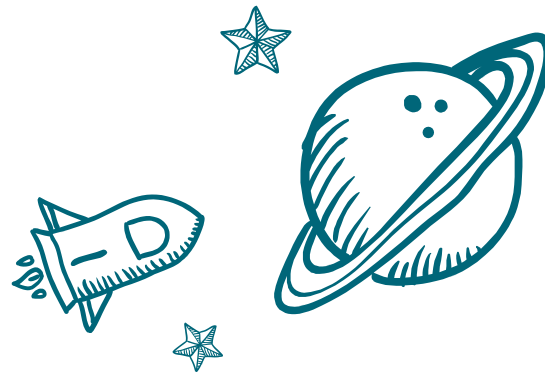




STEM EXPERIENCES



BOOTS ON THE GROUND



KEEP STEM SIMPLE



PROCESS NOT PRODUCT

Obstacles to Implementation

What kind of **obstacles** have you faced in implementing STEM? How have you **overcome** those challenges?



Which PCS products have been most useful to you in creating your STEM program?



Questions?





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PCS Edventures Product Lines:

