

COTTAGE LANE



HELPING OUR STUDENTS AND TEACHERS DEVELOP 21ST CENTURY SKILLS

STUDENT ENGAGEMENT

- Enrichment: New this year
 - Art and Social Action Club
 - ZeeBitsters (Little Bits)
 - Chess for all grades
 - Book Clubs and Reading like a Scientist
 - Running and Social Skills clubs
 - Video Production (new last year)
- New Monthly Challenges
- Breakout Challenges





ENRICHMENT AT COTTAGE LANE

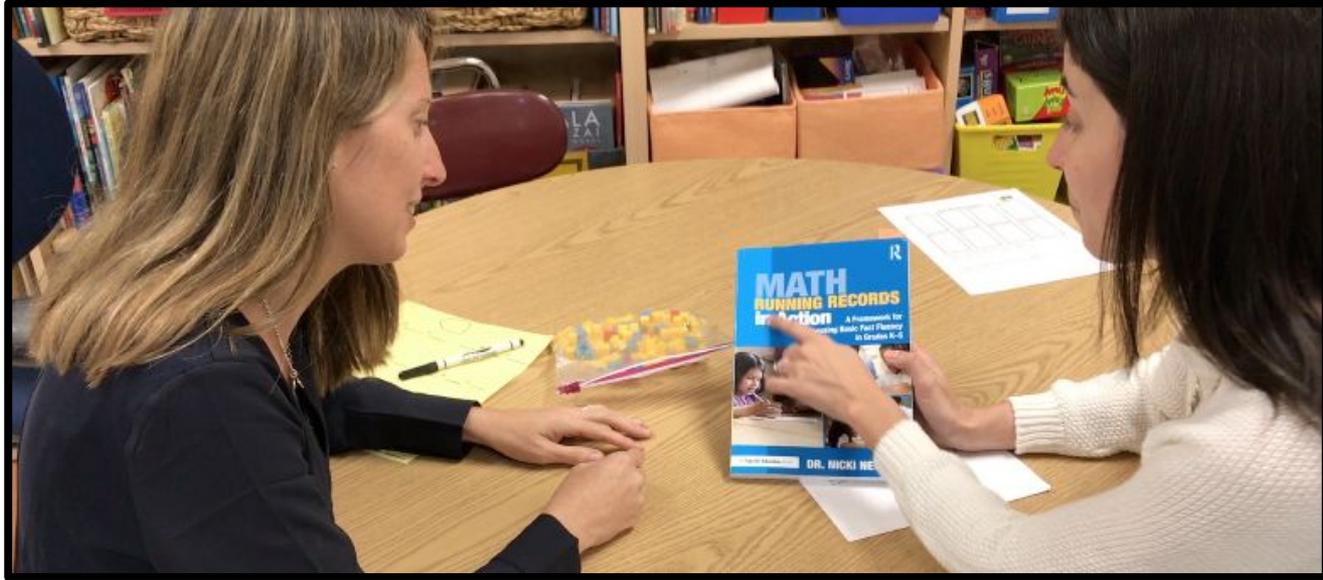


PROFESSIONAL DEVELOPMENT

How can we work with our coaches and teacher leaders in a systematic way to help teachers develop the competencies needed to teach 21st century skills?

- Common goals- reflection, real world problems in units, and teaching strategy rather than content
- Teacher and coach led team meetings
- Partnering with Teachers College, IDE and leadership teams
- Using different methods of coaching: small study groups, individual coaching, modeling lessons



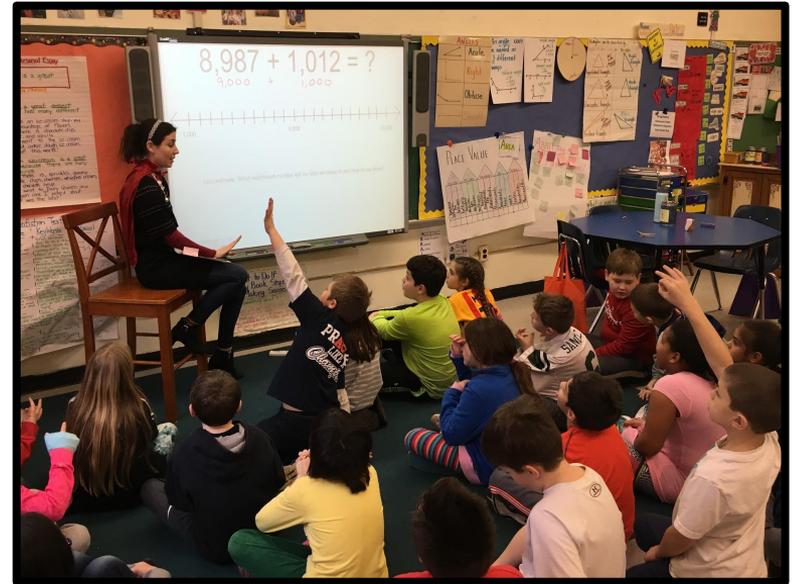


INSTRUCTIONAL COACHES AT COTTAGE LANE



CURRICULUM- WHAT IS DIFFERENT?

- Curriculum Mapping across subjects
- Goal setting in groups to encourage collaboration, reflection and assessment (mirroring what we want our students to do)



MATH

Focus on fluency



#1 $8 + 1 =$ $7 + 1 =$ $6 + 2 =$ $7 + 2 =$ $5 + 2 =$	#2 $1 + 6 =$ $2 + 9 =$ $1 + 7 =$ $2 + 9 =$ $1 + 8 =$	#3 $9 + 0 =$ $4 + 0 =$ $0 + 7 =$ $5 + 0 =$ $0 + 8 =$	#4 $6 + 6 =$ $4 + 4 =$ $7 + 7 =$ $5 + 5 =$ $8 + 8 =$
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Circle the box that was the easiest for you to complete.
Box #1 Box #2 Box #3 Box #4 Box #5 Box #6 Box #7 Box #8

Why was it the easiest?

Circle the box that was the hardest for you to complete.
Box #1 Box #2 Box #3 Box #4 Box #5 Box #6 Box #7 Box #8

Why was it the hardest?

- Sharing research, thinking about our practice, and making changes
 - The Common Core and Investigations focus on fluency which according to the Common Core is “skill in carrying out procedures flexibly, accurately, efficiently and appropriately”
 - According to the article [Three Steps to Mastering Multiplication Facts](#) by Gina Kling and Jennifer M. Bay-Williams “Fluency means noticing relationships and using strategies.”
 - Research shows that putting a heavy emphasis on memorization can take away from students developing number sense
 - Now, we are changing our focus from memorization and speed to understanding strategies students are using and teaching them ones they are ready for.



SCIENCE

- Fourth grade Pinball project in Magnetism and Electricity Unit
- Bringing scientists to school:
 - Natalie Boelman- the impact of global warming on songbirds
 - Paul Olsen- paleo-climatologist
 - Tappan Zee bridge project- engineering and impact on environment



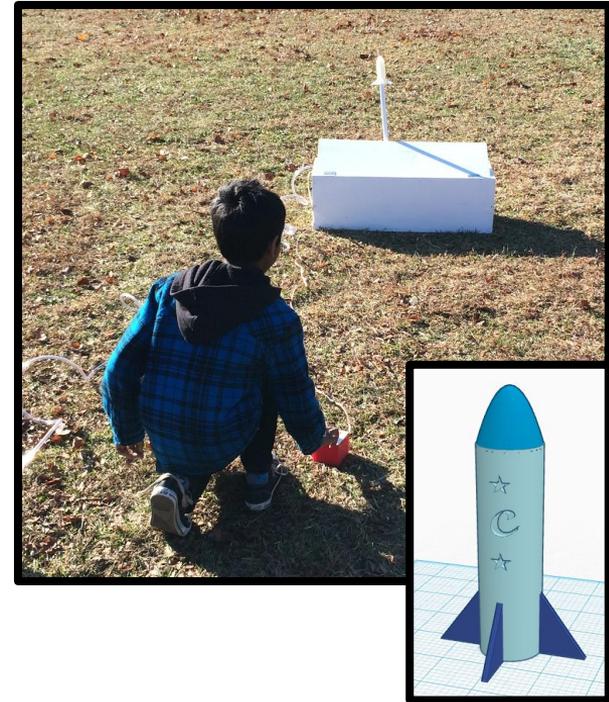
SCIENCE

- Incorporating Engineering and problem solving into units
 - Engineering is Elementary
- New Fifth Grade Unit - learning about climate change while looking at the United States and Nepal teaches about global interconnectedness



TECHNOLOGY

- Open Maker Space availability for students
- Heart rate monitor games unit
- Rocket Unit- Grade 3
- 3-D printing boats and cars - Grade 5



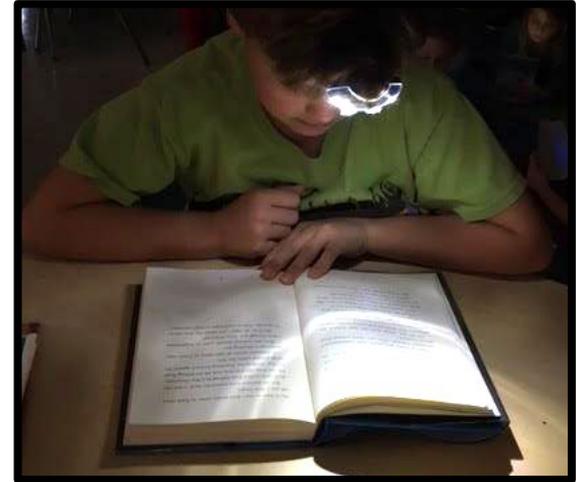
READING, WRITING, AND SOCIAL STUDIES

- Grade 3 Developing a New Unit on China using Teachers College Reading and Writing Project Curriculum
- Grades 3-5 Raising the level of Comprehension using Reading Learning Progressions and Writing Checklists setting goals for reading and writing



READING, WRITING, AND SOCIAL STUDIES

- Focus on self assessment and reflection
- More book club structures- in third grade nonfiction and in fiction across grades
- Grade 4 Interdisciplinary Unit for Nonfiction
Unit 2: Teaching Ecosystems Teaching the World with a new leveled NF Library



EXTRA HELP

New types of learning academies- Moving beyond test prep and catch up

- Book clubs
- Fluency games and clubs
- Reading like a Scientist



CHARACTER EDUCATION CURRICULUM

- Our psychologists develop and teach lessons to all students which address needs that emerge. These lessons are updated to meet the needs of each group of children.
- Our psychologists are going into every classroom this year to teach a series of lessons on topics such as emotions, being a good friend, and understanding empathy.



CHARACTER EDUCATION CURRICULUM

- Our Character Education assemblies and month long curriculum for each word are developed monthly by a team of teachers, administrators and psychologists.
- We share current research with staff and students, for ex. The 21 day gratitude challenge and the Making Caring Common Project (Yale).



CURRICULUM FOR ALL STUDENTS

We are making efforts as a school to include as many students as we can in our programs. Our before school enrichments are a valuable part of our curriculum, especially when it comes to developing 21st century skills.

