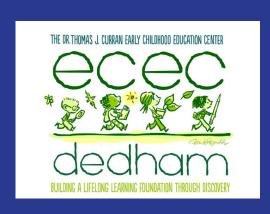
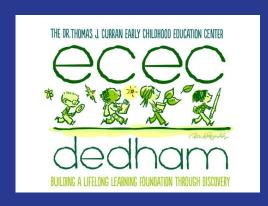
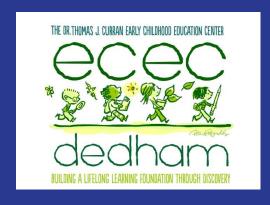
Early Childhood STEM & Humanities







Presentation to Dedham School Committee May 15, 2019

ECEC Presentation Team

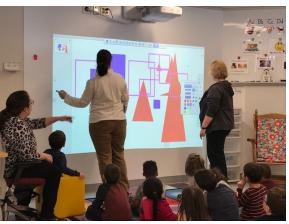
- Mrs. Kimberly Taylor, Principal
- Mrs. Erika Battaini, Integrated Preschool Teacher
- Mrs. Kristen Cannon, Instructional Coach
- Mrs. Emily Hutton, Kindergarten Teacher
- Mrs. Bridget O'Leary, Art Teacher
- Dr. Heather Smith, Humanities Curriculum Coordinator
- Dr. Linda Kobierski, STEM Curriculum Coordinator

Introductory Remarks

"Teachers who have the right tools with the right support and the right motivation, will go miles in just minutes."









Instructional Coaching

Learner ClassroomSupporter InstructionalSpecialist CurriculumSpecialist ResourceProvider **SDataCoach GLearningFacilitator SchoolLeader** CatalystForChange

Instructional Coaching

"Coaching is about working collaboratively to move student learning forward."



Coaching Cycles

Four (6-8 week) cycles...consists of 1 planning meeting and 3 in class sessions per week **One** mini (3-4 week) cycle*

Two ongoing weekly coaching meetings.... Meets once per week for 45 min - 1 hr

Curriculum	Number of Cycles
Preschool Fundations *	2
Preschool Tools of the Mind	2
Kindergarten Reading Workshop	3
Kindergarten Writing Workshop	4
Kindergarten Science	2
Ongoing: Interventionist, Art teacher & Library Media Specialist to discuss STREAM	2







Reading & Writing: Preschool



- Fundations

 All five preschool teachers were trained this year and are implementing semesters one and two of Fundations

Semester ONE:

- Exposure to all 26 letters, keywords, and sounds
- Students learn uppercase and lowercase letters

Semester TWO:

- Students learn to "Sky Write" letters in the air
- Students learn the language of each letter formation
- Students practice making each letter on Trace and Write Grids



Fundations Photos









Student leading our warm-up for "Sky Writing"

Reading & Writing: Preschool



Tools of the Mind

- Preschool teachers have attended 3 out of 4 trainings so far; last training in June
- Sequence of activities that build on skills throughout the entire school year
- Focus on PLAY!
 - Make-Believe Play Practice
 - Make-Believe Play Planning
 - Make-Believe Play
- Other various reading, writing, math, and science activities to help build self-regulation
 - i.e. Story Lab, Graphics Practice, Math Memory, Science Eyes

Tools of the Mind Photos









Make-Believe Play

Reading & Writing: Grade K

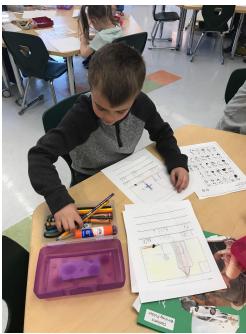
UNITS OF STUDY
Reading + Writing

- Reading: Fundations and Reader's Workshop
 - All nine kindergarten teachers are in their second year of Fundations implementation
 - All nine kindergarten teachers implementing Reader's Workshop
- Writing: Writer's Workshop
 - Five kindergarten lab teachers are a part of cohort 1
 - Narrative Writing, Informational Writing and Opinion Writing
 - Writer's Workshop: Mini Lesson, Writing Partners, Independent Writing, Small Group Instruction, Share
 - Increase in stamina in kindergarten writing
 - "How To" informational writing: opportunity for students to write about a topic they know well



Writer's Workshop in Kindergarten







Science: Grade K

Life Science: Living Things and Their Needs

Bessbugs

- 12 bessbugs and a habitat arrived this spring for each of nine kindergarten classrooms
- Students able to examine bessbugs, hold/touch bessbugs and record their observations on recording sheets.
- Each classroom conducted experiment with choice chambers (soil vs. sand, wet vs. dry, wood vs. apple, dark vs. light)

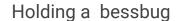
Pumpkin Seeds

- Each student planted a pumpkin seed. Students record observations about plant's growth on recording sheets.
- Classroom Experiment with four plants (no light, no water, no soil and the control)



Living Things and their Needs in Kindergarten

Collecting data on plants



Bessbug experiment- light vs. dark







"STREAM-ing"



- Science, Technology, Reading, Engineering, Art, Math/Music/Movement
 - Cross-curricular
 - Choice based
 - Play based
- Three events:
 - Read across America,
 - Inky (DLIT)
 - Bugs (K Science curriculum connection)
- All specialists participated (Inky and Bugs)
 - Bug Author Study
- School wide collaboration from Specialists to food service

Photos







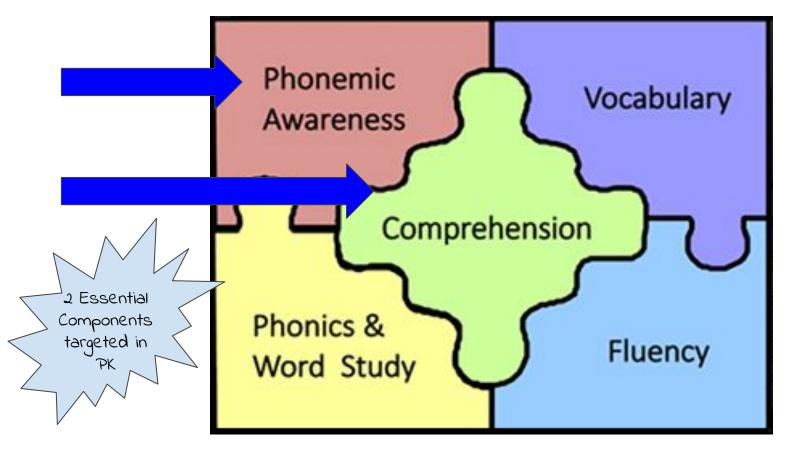
STREAM video



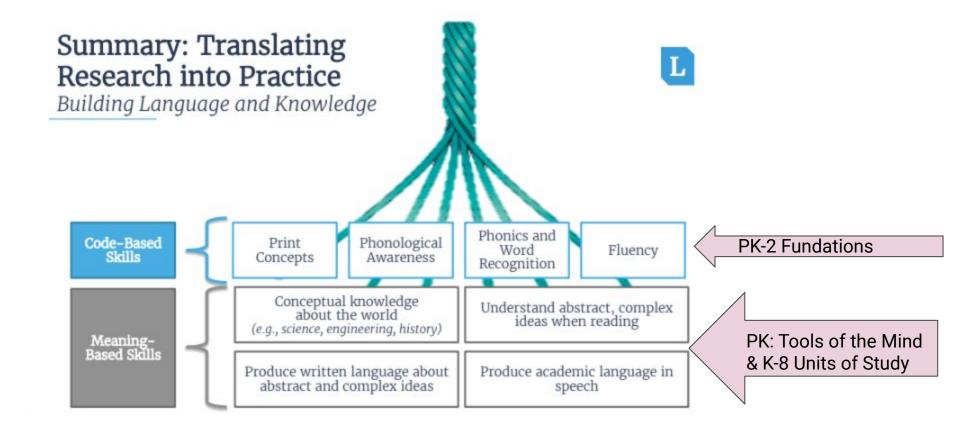


Beetle Bop video





PK & K Fundations Essential Components



Building Language & Knowledge in the Early Years

Learning Progression for Information Writing										
	Pro-Kindergartex	Kindergarton	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6		
					STRUCTURE					
Overall	The writer told and drew pictures about a regio she knee.	The writer told, draw, and mrate about a topic.	The uniter taught readers, also all a taglic.	The serier taught mades, some important justes, about a subject.	The uniter taught nucles; othersation about a subject. He put to these, observations, and questions.	The setter bugit readers different things about a subject the partiest, details, qualies, and show two each part of his setting.	The senter used different binds of information to teach about the subject. Screenings she included little easily, storing, or injects sentens in his writing.	The netter-conveyed diseased information along a subject. Summores the incorporated escape, explanations, do not, or proceedinal passages in his setting.		
Lead	The write standing shearing as saying sametings	The artist told what he right eve.	The water named his topic in the beginning and get the coaders' attention.	The seriest words a beginning to which he named a subject and tried to interest readers.	The order sente a Segment to which she get mades would to learn a let of information about the subject.	The setter hooked her readers by explaining any the subject in attentif, belling a surprising fact, or giving a largest rate fact the state of the she would leach them different things about a subject.	The author write an introduction to which be helped readen, get interested in and understand the soliper. He let readen kneen the solitogists that he soulid dealing later as seell as the sequence.	The senter wrote or introduction in which she tremoned maders, perhaps with a quate or significant fact. The may have individed her over dates about the topic. She let needers know the subseques that who would also large lates and have her test exactly which!		
Transitions	The sorter legal or marking.	The exists put different firings his kneer about the logic on his pages.	The series hald different parts about her topic an different pages.	The series used month such as and and attachs show also had more to say.	The unifor used receils to close sequence such as define, after, then, and later. He after used later, the after used to the store when did not fit such as frowner and but.	The series used scrols in each series that helped readers understand from one piece of triumation commented with others. If he wrote the series in sequence, he used sorets and pieces such as before, lider, send, then, and where the properties the section in little or parts, he used reads such as a smother, alon, and for example.	When the notes wrote about results, the used south and phoses such as consequently, as a result, and because of this. When the compand information, the used phoses such as in contents, by comparison, and appeals, in terrative party, the used phoses that go with socials such as a little later and fine focus later. If the centre section, the stated are approximately the section such as Just the most reporter, meson, for exemptic, and consequently.	The writer used transition search to help his readers productional how different bits of solor ratios and different parts of his setting the tegeries. The series used transitions such as for distance, in addition, therefore, each as, forcease of, as a vesult, in contract to, unlike, despite, and on the other hand to help someoned deep, orderealists, and only in relationships.		
Ending	After the writer said, divers, and "erote" all he could aloue his topic, he amised it.	The order had a last part or page.	The wider ericle an ending	The serbe worder come serberous or a section at the end to swap up No- plane.	The writer serves an embry fluid dress continuous, wheel quantism, or negativel wasp mades in light respond.	The sector sector an arranging or affect also personaled medies of her subject and may either have suggested a follow-up-action or left readlers with a final imaght. She added from thoughts, feelings, and questions about the subject at the and.	The serber serce is one cluster in which he reclaimed the main points and may have offered a fleel thought or question for revides to consider	The serier wrote a constance in which she recorded her important ideas and othered a final height of implication for resolets to conside.		
Organization	On the nether's paper, there eas a place for the departing and a place where also tried to make woods.	The nation told, draw, and sector information according to the relation page.	The writer told about her ring is part by part.	The setter's setting fad sillners parts fact part told different information about the topic.	The archer grouped his information entry parts. Tack part was resulty about one from that serventied to the log topic.	The serier grouped information not sections, and used penagraphs and constitions chapters to separate their a seriours. Each seriour had information that was notify about the serie thing, the may have used handings and subheadings.	The senter corporated has writing into a companior of sequents sentime. She may have used heraflegs and subhradings in highlight the separate sentime. The senter write each sentime according to an argumentational plan-disped partiply the genes of the sentime.	The notice used subheading and/or sharl rehealactery transitions to expanse his sactions. The write made deliberate choices about his or order sections and information within sections. The discussion and interface sections to bely emphasion long prices. The unitie used transitions, introductions, and topic sertimons to purp out his main-points, his arrow multiple paragraphs in some sections.		
					DEVELOPMENT					
Elaboration	The writer put more and shart more on the plage.	The writer done and uncle- sine important things about the logic.	The winter put facts in his writing to treath about his trip is.	The serior used different kinds of orlamation in two arting such as fairs, definitions, details, steps, and sign.	The writer service facts, delinitions, ristacks, and observations about her topic and replaced some of chars.	The series taggit her randers different things about the object. We chose those subscribe because they were important and intensiting. The series included different kinds of facts and details such as numbers, names, and examples.	The setter explained different aspects of a subject. No instabel a vertely of information such as examples, offerin, does, and susten. The setter used market source and gave credit when appropriate. We node use to meanth any situation that would add to his setting.	The setter chose a focused subject, included a sealery of information, and organized the points to load inform two scales. The setter used touted sources and information from authorities on the topic and gave the sources credit for important accepts in the test and in a kildingraphy.		

Writing Across the Grades

PreK Kindergarten Grade 1

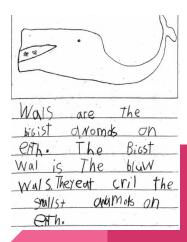
The writer told and drew pictures about a topic she knew.



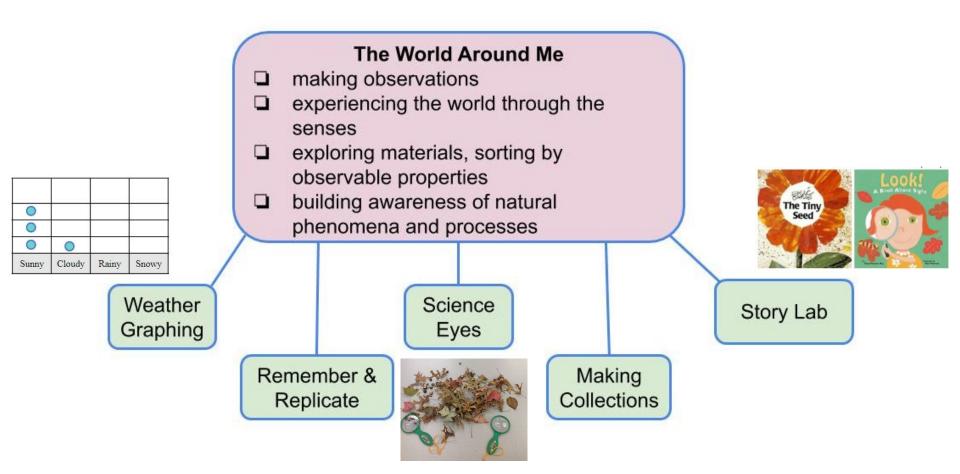
The writer told, drew, and wrote about a topic.



The writer taught readers about a topic.



Learning About, and Figuring Out: Early Childhood



Learning About, and Figuring Out: Life Science PK-5



e-based ecosystem study & human interactions

nature walks habitat studies



plants in the classroom

grown from seeds:

pumpkin
bean
radish
Wisconsin Fast Plants

Living & nonliving things Needs of living things Life cycles Diversity & Variation Habitats Interdependence of life

preserved insect specimens chick hatching pill bugs

butterfly development dissections: squid, brain,

eye



tropical, succulents, aquatic plants

flower dissection

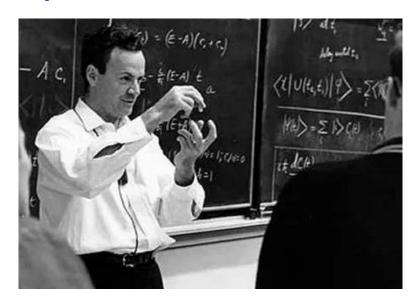
ecolumns:
effects of
pollutants on
radish plants &
red worms



Learning About, and What's Important

The late physicist Richard Feynman recounted some of the early experiences that contributed to his understanding of—and approach to—science.

One story involves his summers in the Catskill Mountains, where on weekends he would go for walks with his father...



...my father would take me for walks in the woods, and we learned all about nature and so on. All fathers took their sons out for walks in the woods on Sunday afternoons. One day this boy said to me, "See that bird standing on the stump over there? What kind of bird is that?" I (Richard) said, "I haven't the slightest idea what kind of bird it is."



The child says, "It's a brown-throated thrush. Your father doesn't teach you anything about science!"

But it was the opposite. My father had already taught me: "See that bird?" he once asked. "You can know the name of that bird in all the languages of the world, but when you're finished, you'll know absolutely nothing about the bird. You'll only know about humans in different places, and what they call the bird. So let's look at the bird and see what it's doing—that's what counts. We'll see that it sings and teaches its young to fly, and it flies so many miles away in the summer, and no one knows how it finds its way, and so on (I learned very early the difference between knowing the name of something and knowing something.)"

Questions.....