Elementary Curriculum, Instruction & Assessment



Dr. Christine Capaci, Lindsay Jablonski, & Dr. Melissa Pearson West Windsor-Plainsboro Regional School District

Curriculum and our Strategic Goals:

We believe that every individual has intrinsic worth, that embracing diversity enriches and empowers our community, and that people reach their full potential when encouraged to believe it is possible. Therefore, building upon our tradition of excellence, we will guide and support our students' growth, empowering them to value their individual learning journeys

Goal 1

Understanding that all students have diverse needs, backgrounds, and approaches to learning, we will integrate tools and structures to appropriately challenge and enable students to realize their full potential.

Goal 2

Embracing a rapidly changing world, we will empower learners to assume active roles in their communities, to face and engage global challenges and to contribute proactively toward a more peaceful, just, inclusive, and secure world.

Goal 3

Recognizing that children need to balance physical, social, emotional and academic needs, we will maintain a supportive culture and build structures for the health, safety, and well-being of the Whole Child.

Every Child, Whole Child, Global Child

Curriculum and our Strategic Goals:

Goal 4

West Windsor-Plainsboro Regional School District will cultivate a diverse and inclusive community where members of every race, sexual orientation, gender, gender identity, ability, religion, socio-economic class, ethnicity, and national origin are welcomed, valued, respected and celebrated.





Purpose

 To understand what students have learned.
To make instructional decisions to help students grow.

5

Types of assessments

Assessments FOR Learning Quizzes, tests, observations, class discussions

Assessments **OF** Learning Grades, assessments like NWEA Map & NJSLA

Inapshot of (some) assessments

<u>Gr.</u>	<u>Assessment</u>
K-9	NWEA MAP
K-1	NWEA MAP Fluency
2	CogAT
K-12	ACCESS for ELL's
k-9	NJSLA

<u>Timeframe</u> Fall, Winter, Spring Fall, Winter, Spring Winter Spring Spring



doing, knowing, and sense making

Mathematics

Mhat has changed?



Timed fact tests Teacher telling how to do it One right answer Isolated practice Long worksheets Memorizing steps "I'm not a math person." Fluency strategies & practice Inquiry/strategies that fit my brain Multiple entry points Cooperative group and partner work Manipulatives Conceptual understanding Growth mindset

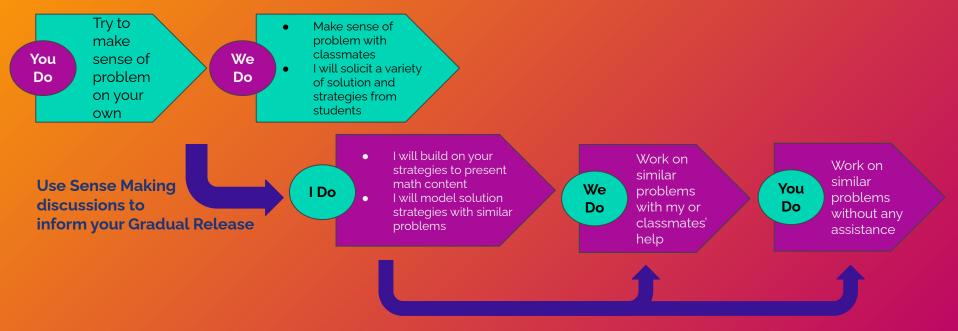
Shared Vision: Math Equity Statement

ALL learners should have access to rigorous, high-level mathematical content in an environment where risk-taking, deep conceptual understanding, and growth mindset are the norm.

doers, knowers, sense makers of mathematics

Start with Sense Making

Sense Making - Number Sense Routine (or Calendar Math)



Gradual Release - Guided Math

Source: Choosing to See, Dr. P. Seda & Dr. K. Brown, 2021

Math Workshop Structures

- Number Sense Routines
- Mini-lesson and/or Guided Math Groups
- Rich Tasks or Center Activities
- Reflection

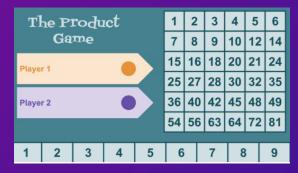


Image: Theresa Wills



Misconception: Kids don't practice their basic facts anymore.

"Students rarely cry about other subjects nor do they believe that other subjects are about memorization or speed."

 Jo Boaler, 2015 "Fluency without Fear - Research Evidence on the Best Way to Learn Math Facts"

Phases of Fluency

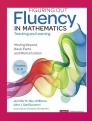
Phase 1 Counting	Phase 2 Deriving	Phase 3 Mastery
Counts or	Reasoning	Efficient
counts on	strategies	production
with objects	based on	ofanswers
or mentally	known facts	

What is fluency?

Efficiency: Solving a procedure in a reasonable amount of time by selecting an appropriate strategy and readily implementing that strategy

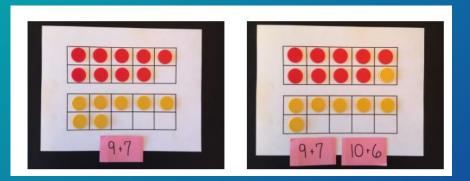
Flexibility: Knowing multiple procedures and applying or adapting strategies to solve procedural problems (Baroody & Dowker, 2003; Star, 2005 as cited by Bay-Williams & SanGiovanni, 2021, p.3).

Accuracy: Correctly solving a procedure (Bay-Williams & SanGiovanni, 2021, p. 3)





Basic Fact Example 7 + 9 6 + 10 = 16



Extensions to Other Types of Numbers

97 + 353.9 + 1.4100 + 32 = 1324.0 + 1.3 = 5.3

FIGURING OUT FI

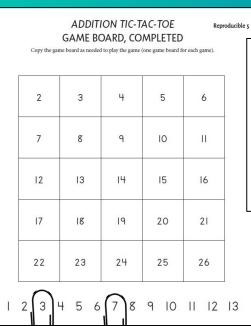
Bay-Williams & SanGiovanni, 2021, Figuring out Fluency. Corwin Pg. 65

Ten frame images from: <u>https://cindyelkins.edublogs.org/2018/12/15/all-about-10-make-a-10-and-adding-up/</u>



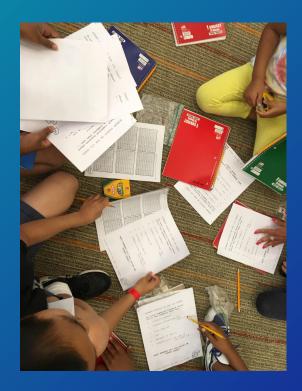
12 X 25





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			TOTAL SCORE		





Why all of this?



Number Sense is the foundation for all higher-level mathematics. We are more mathematically confident when we understand numbers.



What do you notice? What do you wonder?





73 and 48 are **BIG** numbers when...







About how many full day equivalents would someone have spent brushing their teeth between the day they started elementary school and the day they ended?

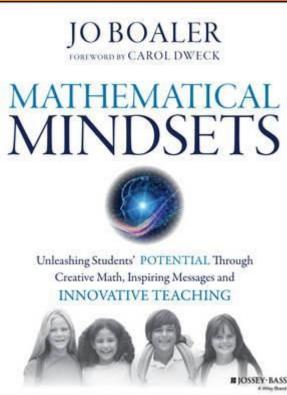
Jim brushes his teeth for 2 minutes, 3 times a day. How many minutes does he spend brushing his teeth in a year (365 days)?

Progression of Early Numbers & Counting



https://gfletchy.com/progression-videos/

DRESOURCES for Growth Mindset



LIMITLESS MIND LEARN, LEAD, AND LIVE WITHOUT BARRIERS JO BOALER statistical symptotic watermatical minipigita





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Talk to your kids about math when: -cooking -getting groceries -going for a walk

Ask your children about their math: What do you notice? How do you know? How did you figure that out? Do you see any patterns?

Resources Links from Previous Slide



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Bridges Family Support dreambox. **LEARNING Bedtime** Math

WW-P Elementary Math Page http://www.ww-p.org/departments/Mathematics /elementary_school_math

Math Learning Center Pages (Bridges) https://www.mathlearningcenter.org/families

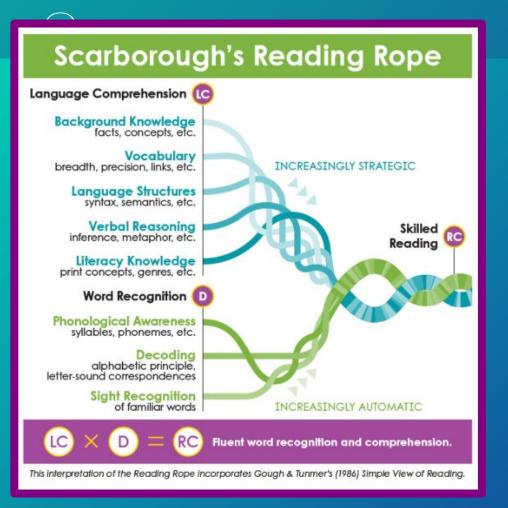
https://mathathome.mathlearningcenter.org/

Bedtime Math Links https://bedtimemath.org/get-up-and-move/

New Jersey Student Learning Standards for Math https://www.nj.gov/education/standards/math/l ndex.shtml

Phonics, Reading and Writing Workshop

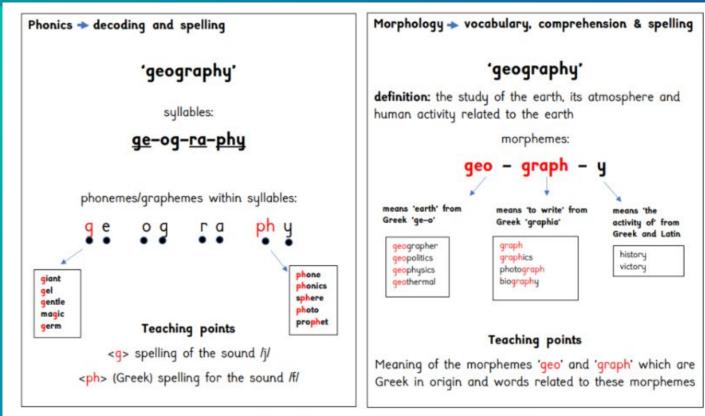
Literacy





Teaching Literacy in WW-P

Phonics (K-2) and Word Study (3-5)



PhonicBooks

www.phonicbooks.co.uk

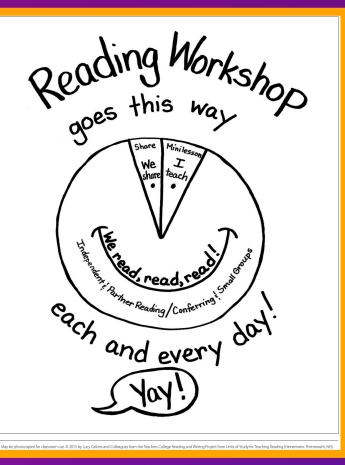
Phonics to Word Study

Sample Phonics Skills Progression by Jan Burkins and Kari Yates

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ds blazing sunshine return		
bloom blue spoil		
corn arch hurt		
rain play seam		
bake fine rope		
fish track chop		
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Teaching Literacy in WW-P



Reading and Writing Workshop Structures (40-60 minutes)

- Mini-lesson (5-15 minutes)
- Student Reading/Vriting Time with Conferring and Small Groups (20-30 minutes)
- Mid-Workshop Teaching Point (2 -5mins)
- Teaching Share/Partner/Book Clubs (2-10 minutes)

Zooming in to what Workshop Model Teaching Really looks like....

Workshop Model Teaching

- Whole Group Direct Instruction
- Guided Practice
- Small Group Instruction
- Time for Independent Practice

Spiraling through the Grades - Reading

K-Becoming Avid Readers 1st- Meeting Characters and Learning Lessons 2nd- Amping Up Reading Power 3rd- Character Studies 4th - Interpreting Characters 5th - Interpretation Book Clubs

Spiraling through the Grades - Writing

K- Persuasive Writing of All Kinds 1st-Writing Reviews 2nd-Writing About Reading 3rd- Changing the World: Persuasive Speeches, Petitions and Editorials 4th - Boxes and Bullets: Persuasive Essays 5th - Research Based Argument Essay

Supporting your child

How can you support your child's growth as a reader?

- Read TO your child
- Read WITH your child
- Have your child read to you
- TALK about the book (avoid the question-and-answer approach)
- Tell stories (family stories are a great way to end the day ...)
- Write notes to your child (leave them on the counter in the morning, tuck them into backpacks or lunch boxes)

○ Supporting your child

Supporting your child's writerly life:

- Give them notebooks
- Talk about the different types of writing you do.
- Have them help you write the grocery list, notes to family, daily gratitude journal etc.
- Have conversations around their writing- what are they trying to do, or make the reader feel?
- Talk about the what you notice authors doing in their writing.

a Message from Or. Lee McDonald

Deputy Superintendent of Schools

Parent University - Benefit of Youth Sports

A mountain of evidence now documents the physical, mental, social, emotional, cognitive and academic benefits that flow to youth whose bodies are in motion. Learn more about the positive impact on a child's life through participation in youth sports. Hear from a panel of community leaders about how sports have impacted local youth and how your child can be involved.

Tuesday February 13th 7pm via Zoom





West Windsor Recreation

Plainsboro Recreation

West Windsor Little League Baseball

West Windsor Youth Soccer

thanks!

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Special thanks to all the people who made and released these awesome resources for free:

- Presentation template by <u>SlidesCarnival</u>
- Photographs by <u>Unsplash</u>