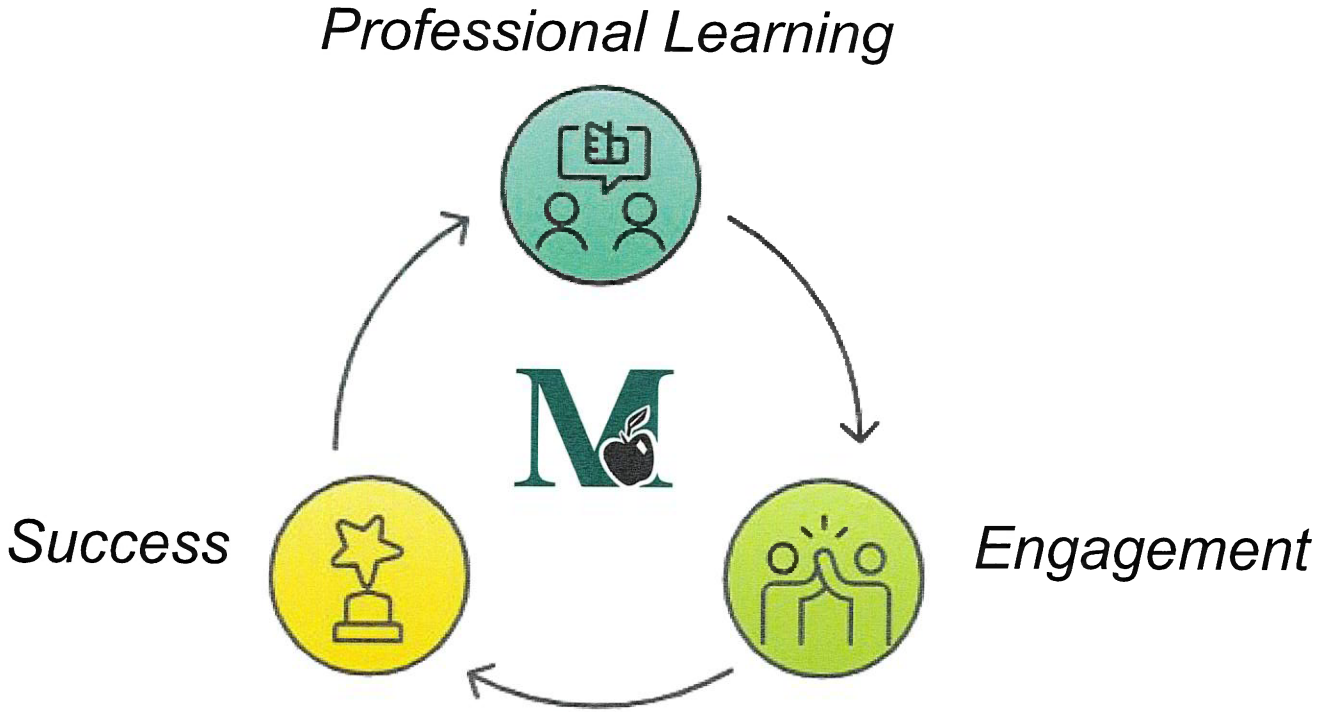
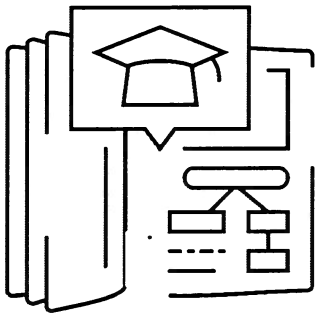
Math Highlights

May 2025

Tonight's Goals



Math Curriculum Review Cycle



- Examined best practices in math instruction
- Windows & Mirrors exercise
- Identified pilot team and resources (2022-23)
- Site visit to neighboring district
- Collaboration with math coaches
- Consensus to adopt i-Ready Mathematics (K-8) and new resources (9-12)
- Revised curriculum documents to align to PA Core Standards
- Professional Development & ongoing training

Problem of the Day

You're in charge of packing cookies for a school bake sale. Each box must contain the same number of cookies.

- You start with 3 trays, each holding 8 cookies.
- A parent donates 2 more dozen cookies.
- Then, 8 cookies crumble and can't be used.

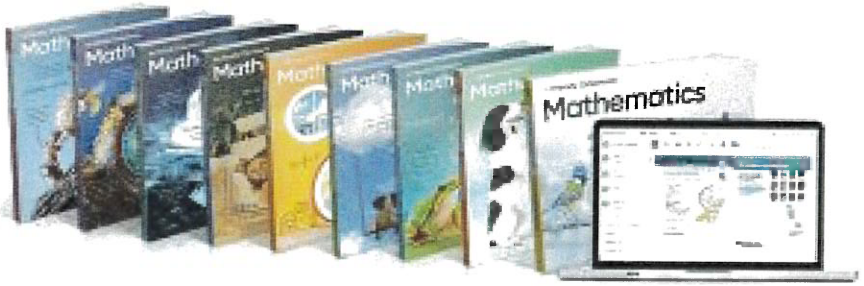


How many total cookies are available to pack?

If each box must contain the **same number of cookies** and hold **between 6 and 10 cookies**, what are your packing options?

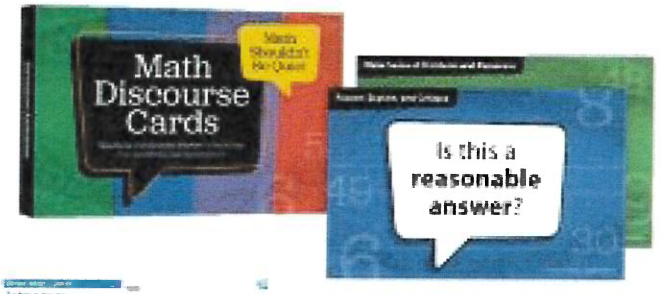
PA Standards: 2.2.3.A.1, 2.2.3.A.2 & 2.1.3.B.1 Mathematical Practice Standards: MP.1 & MP.4

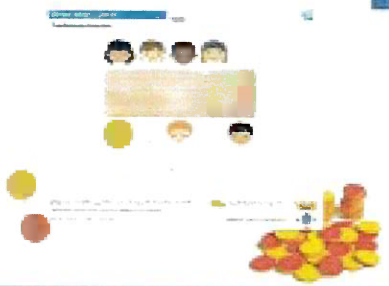
i-Ready Classroom Mathematics



Highlights:

- **Encourage opportunities for productive struggle** to build perseverance and deepen mathematical understanding.
- **Connect math to real-world situations** to make learning meaningful and relevant.
- **Promote student collaboration** to solve problems and explain their thinking and strategies.
- **Strengthen foundational conceptual understanding** by using models, manipulatives, and visual representations to support flexible thinking and number sense.





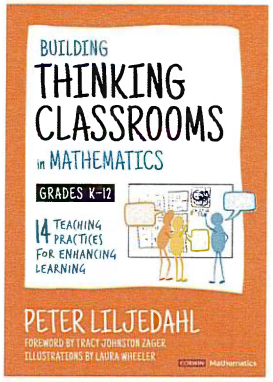
Professional Learning

i-Ready

- Productive struggle
- Collaborative conversations
- Discourse



- Intentional planning
- Scaffold questions to build conceptual understanding

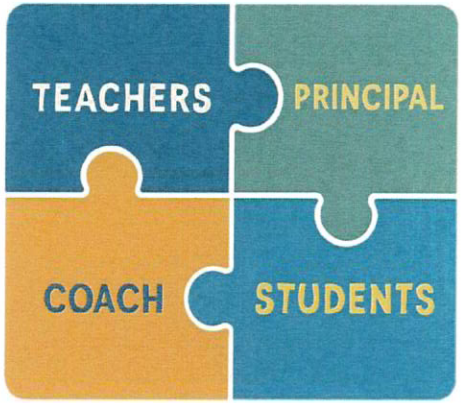


- Practices to increase student engagement
- Small shifts with big rewards



- Building relationships
- Coaching cycles
- Data analysis

Increased Engagement



Teachers

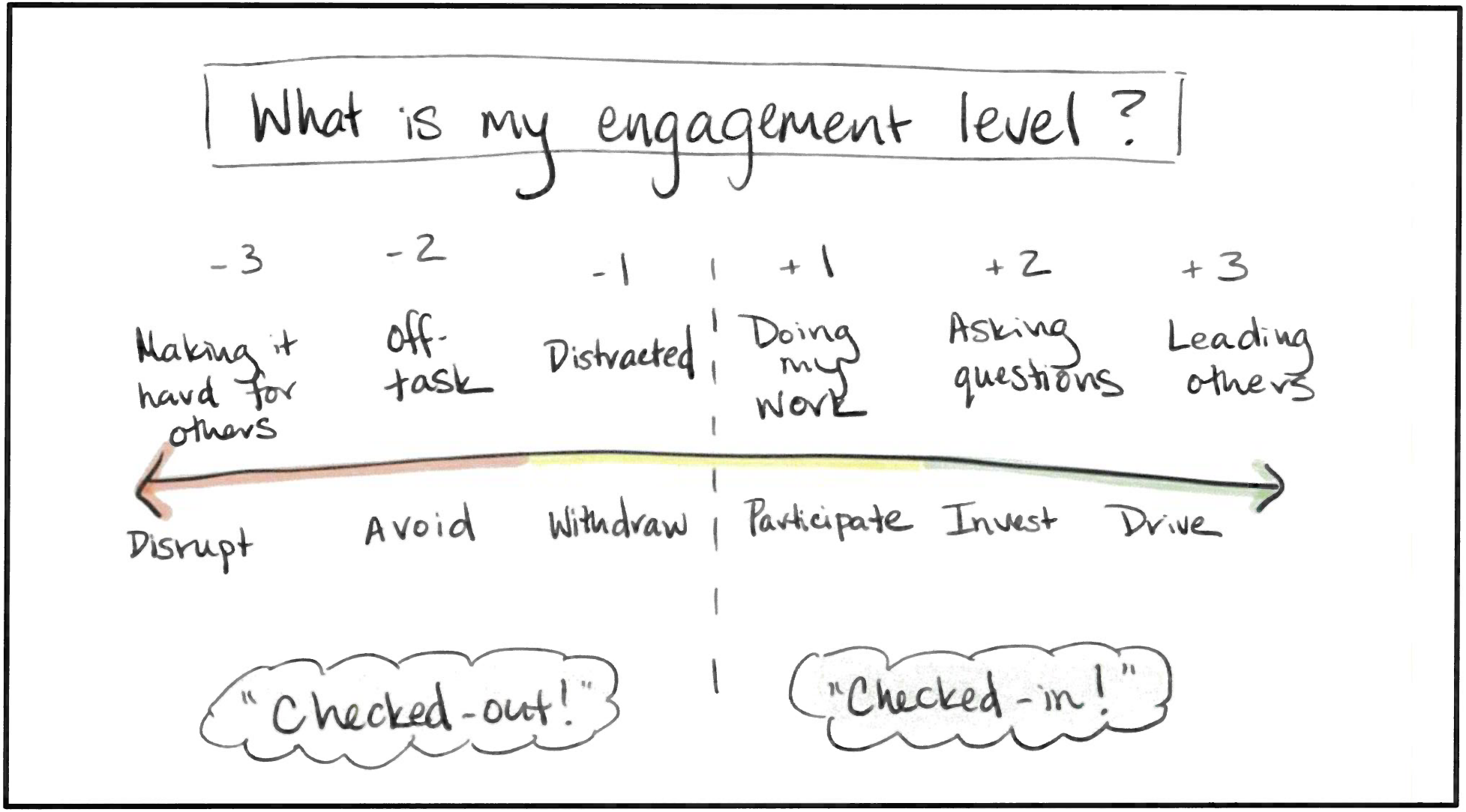
- Building Thinking Classrooms
- Coaching Sessions

Students

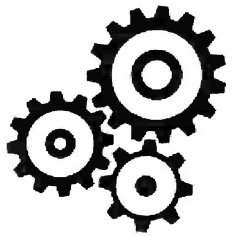
- Try-Discuss-Connect routines
- Increased rigor and opportunities for written response
- Use of manipulatives to demonstrate foundational understanding

District-wide

- Focus on Danielson's Framework for Teaching: 3b Questioning and 3c Engagement
- Emphasis on Standards for Mathematical Practice


What is my engagement level?
-3
-2
-1
+1
+2
+3
Making it hard for others
Off-task
Distracted
Doing my work
Asking questions
Leading others
Disrupt
Avoid
Withdraw
Participate
Invest
Drive
"Checked-out!"
"Checked-in!"

Ongoing Work



- Continued support with i-Ready trainers & coaches
- Addition of *First in Math* to support fact fluency (grades 3-4)
- Increasing understanding and use of Student Pathways (K-8)
- Adjusting pacing to support deeper understanding
- Expanding teacher knowledge and consistent use of math manipulatives
- Creating common assessments to allow for data analysis
- Transferring practices for engagement across department areas
- Continuing coaching and collaborative opportunities

