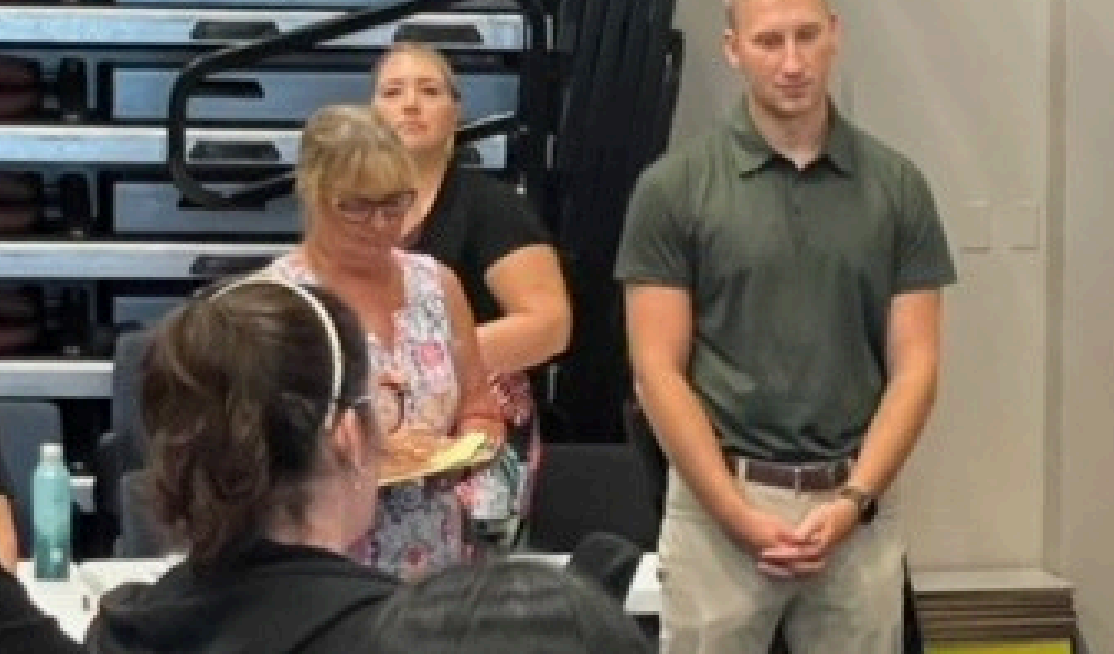




FRANKLIN EDUCATION CONNECTION
Education Foundation • Study Connection • First Scholars

Franklin Community Schools are Building Thinking Classrooms

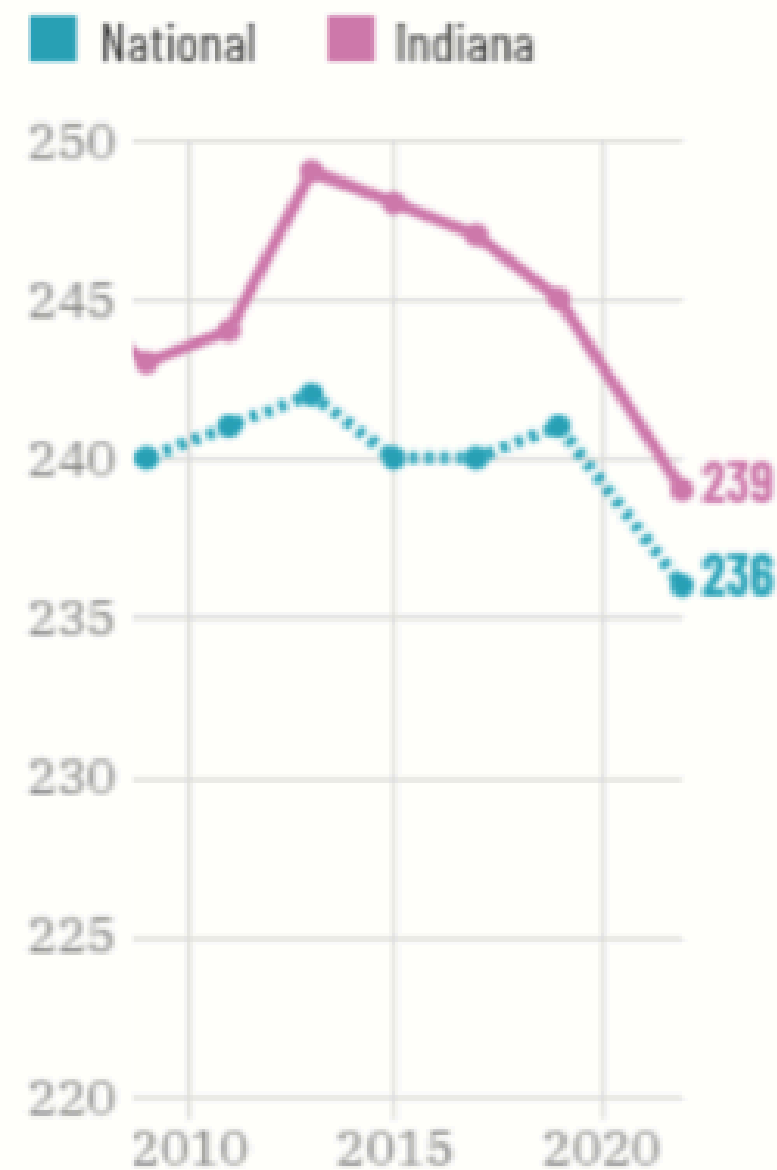




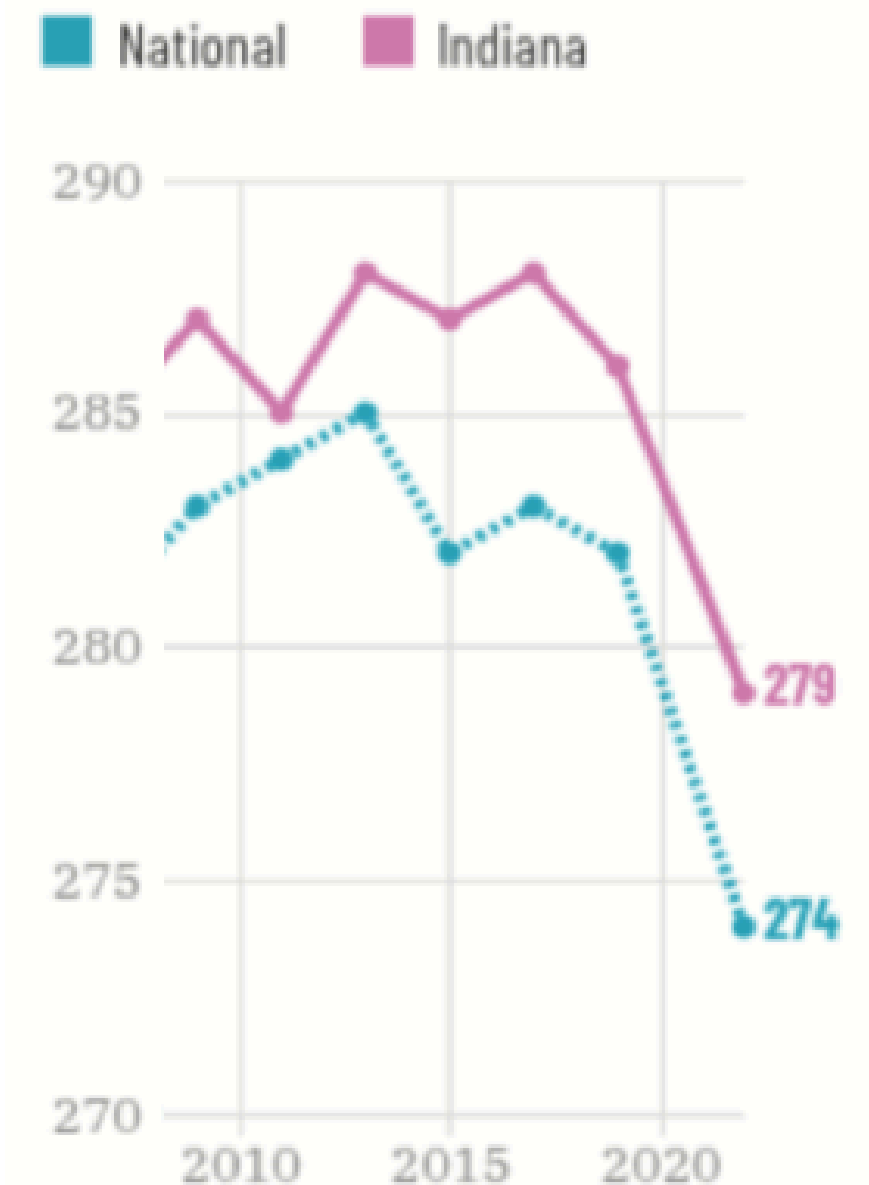
2022 BOARD PRESENTATION

- ▶ 2010 Changes in testing
- ▶ 10 years of Plummeting Math Scores
- ▶ 2021 Difference in textbook adoption
- ▶ Research-informed Data-driven solution
- ▶ Adoption of District wide Math Goals

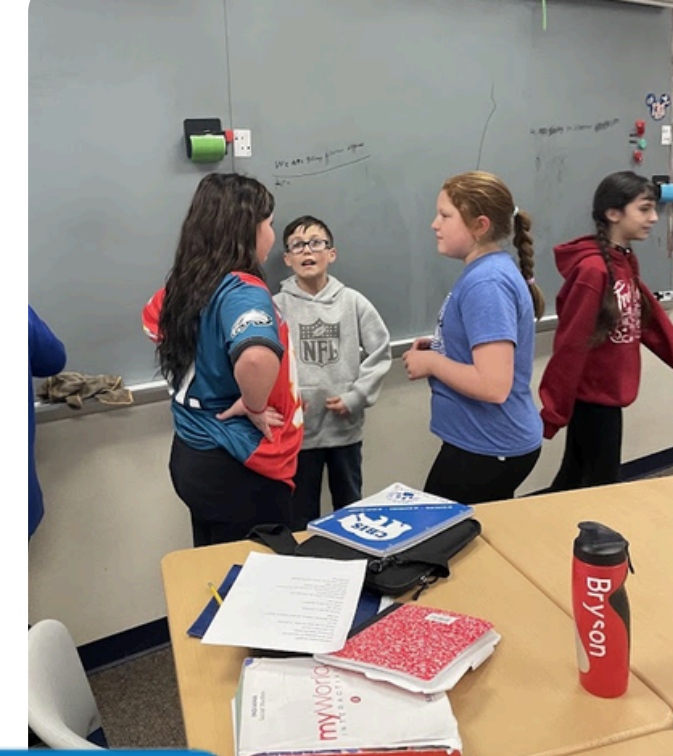
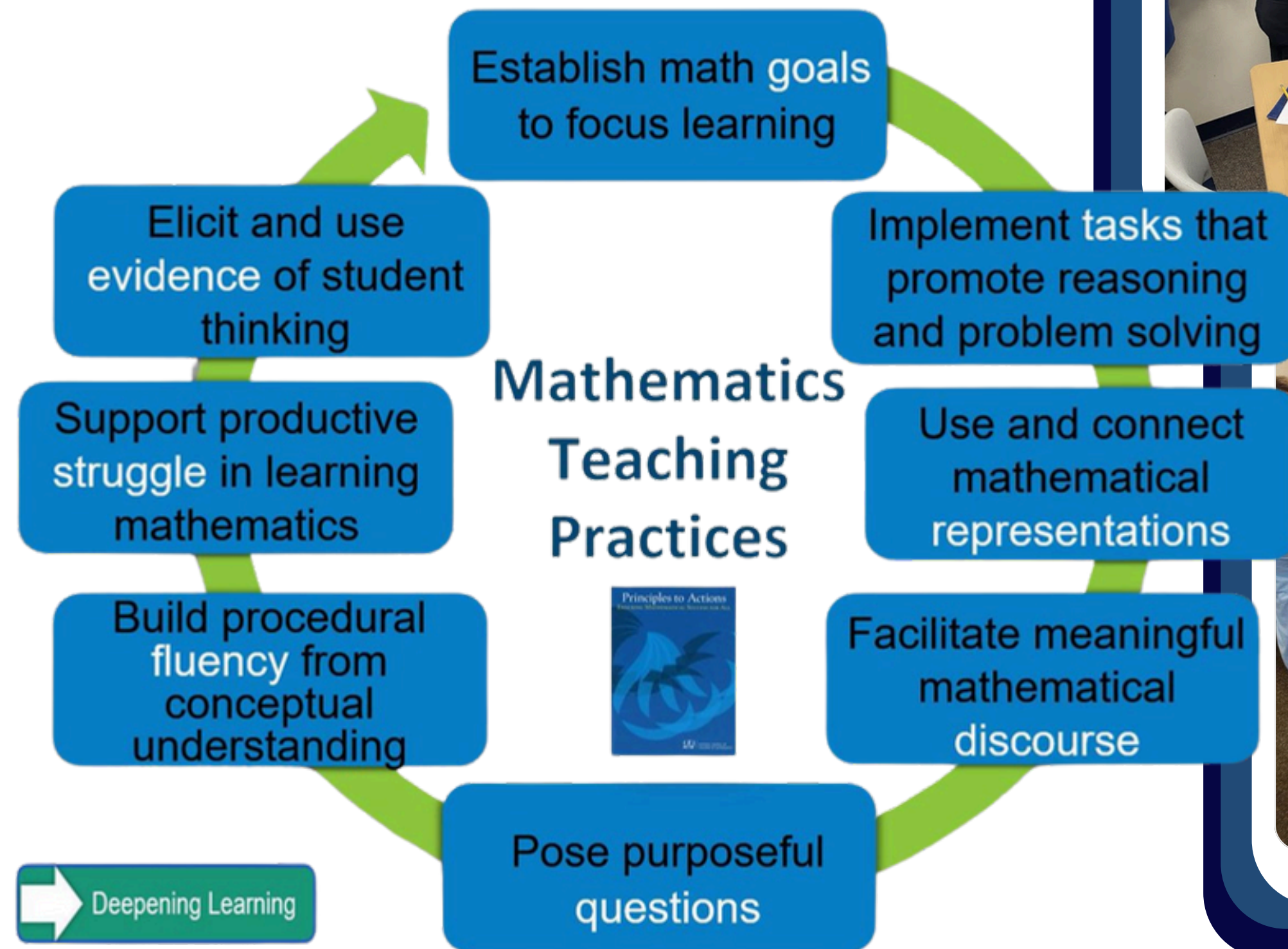
4TH GRADE MATH



8TH GRADE MATH



PUBLICATION OF RESEARCHED INSTRUCTIONAL PRACTICES



THE SHIFTS IN INSTRUCTION

NCTM's 8 Effective Math Teaching Practices	Science	CCR	PLC's
Establish Goals to Focus Learning	✓	✓	✓
Implement Tasks that Promote Reasoning and Problem Solving	✓	✓	✓
Use and Connect Multiple Representations	✓	✓	✓
Facilitate Meaningful Discourse	✓	✓	✓
Pose Purposeful Questions	✓	✓	✓
Build procedural fluency from conceptual understanding.	✓	✓	✓
Support Productive Struggle in Learning	✓	✓	✓
Elicit and Use Evidence of Student Thinking	✓	✓	✓



THE SHIFTS IN INSTRUCTION

NCTM's 8 Effective Math Teaching Practices	Science	CCR	PLC's
Establish Goals for Learning			
Implement Formative Assessment			
Use Multiple Methods and Materials			
Facilitate Student Engagement			
Position Yourself as a Learner			
Build on Student Knowledge			
Support Productive Struggle in Learning	✓	✓	✓
Elicit and Use Evidence of Student Thinking	✓	✓	✓

The Senate Education Committee heard HB 1634 this week, a bill aimed at strengthening teacher preparation programs and expanding access to rigorous math instruction. It would require teacher prep programs to focus on conceptual understanding, procedural fluency, and real-world problem-solving in math instruction. Additionally, the bill mandates automatic enrollment of high-performing 5th-7th graders in advanced math courses, with an opt-out option for parents and consideration of factors like grades, class rank, and coursework quality. This bill is a strong effort to improve student math outcomes, and we look forward to seeing how it progresses. The bill is expected to be up for amendment and a vote next week.



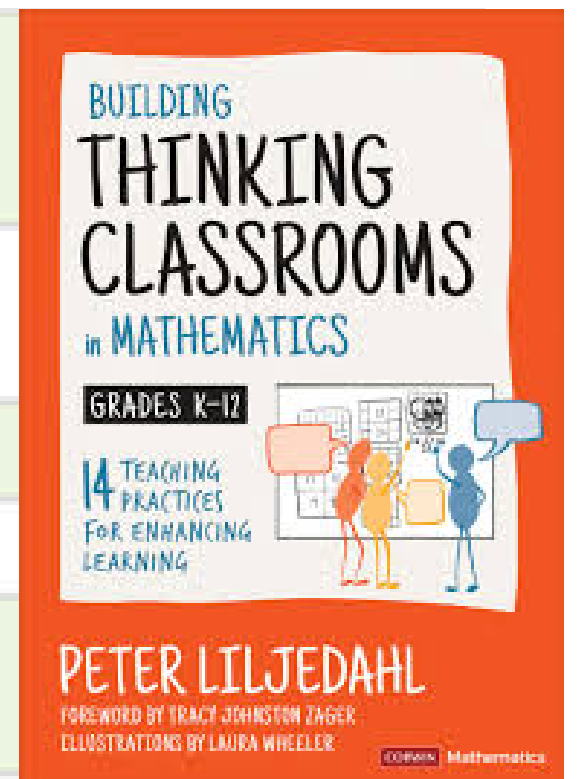
THE SHIFTS IN INSTRUCTION

NCTM's 8 Effective Math Teaching Practices	Science	CCR	PLC's
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Pose Purposeful Questions	✓	✓	✓
Build procedural fluency from conceptual understanding.	✓	✓	✓
Support Productive Struggle in Learning	✓	✓	✓
Elicit and Use Evidence of Student Thinking	✓	✓	✓



THE INTRODUCTION TO BUILDING THINKING CLASSROOMS

What we need to do:				How to do it:
NCTM's 8 Effective Math Teaching Practices	Science	CCR	PLC's	Building Thinking Classrooms (BTC) Practices
Establish Goals to Focus Learning	✓	✓	✓	Chapters: 13, 14
Implement Tasks that Promote Reasoning and Problem Solving	✓	✓	✓	Chapters: 1, 10, 11
Use and Connect Multiple Representations	✓	✓	✓	Chapters: 6, 8, 9, 10, 11
Facilitate Meaningful Discourse	✓	✓	✓	Chapters: 2, 4, 8
Pose Purposeful Questions	✓	✓	✓	Chapters: 5, 13
Build procedural fluency from conceptual understanding.	✓	✓	✓	Chapters: 1, 10, 11
Support Productive Struggle in Learning	✓	✓	✓	Chapters: 6, 9, 12
Elicit and Use Evidence of Student Thinking	✓	✓	✓	Chapters: 3, 7, 13, 14



BTC LESSON PLAN

Thinking Task

The teacher presents curious real-world thinking task that promote reasoning and problem solving.

Questioning

Moving students towards success through purposeful questioning, hints, and extensions

Explicit Instruction

Assist students in making critical connections between their thinking and established goals to focus learning.

Elicit and Use Evidence of Student Thinking

Collaboration

Students collaborate through meaningful discourse in groups of 2-3 to create multiple representations and share understanding built on background knowledge.

Flow of Productive Struggle

Students engage in productive struggle to grapple with complex concepts eagerly empowered by a secession of successes motivating them to persevere.

Check Your Understanding

Independent practice at individualized levels to build procedural fluency from conceptual understanding.

PILOT CLASSROOMS: RESPONSES TO THE SHIFTS

Goal 1: Support Instructional Coaches in connecting Conceptual Learning Strategies with current textbook curriculum resources. (2022-2023 Sem 1)

Goal 2: Admin will develop a common understanding of conceptual learning practices and vision of mathematics classroom and instruction. (2022-2023 Sem 2)

Goal 3: Pilot PLC (Intermediate School PLC led by Mandy and Amanda) will identify or develop at least one conceptual understanding lessons for each unit with a focus on medium to high priority standards.

We will know when this goal has been met when:

PLC teachers are planning and sharing conceptual understanding lessons for each high unit with a focus on medium to high priority standards.

Observed Evidence of the use of the 8 effective mathematics practices within the classroom including:

- Established Math Goals
- Task Implementation
- Multiple Mathematical Representations
- Student Mathematical Discourse
- Productive Struggle
- Evidence of Student Thinking

Continuous sharing and comparing of data based on shift of instruction
Continuous sharing and comparing of information based on book studies of **Taking Action** and **Building Thinking Classrooms**





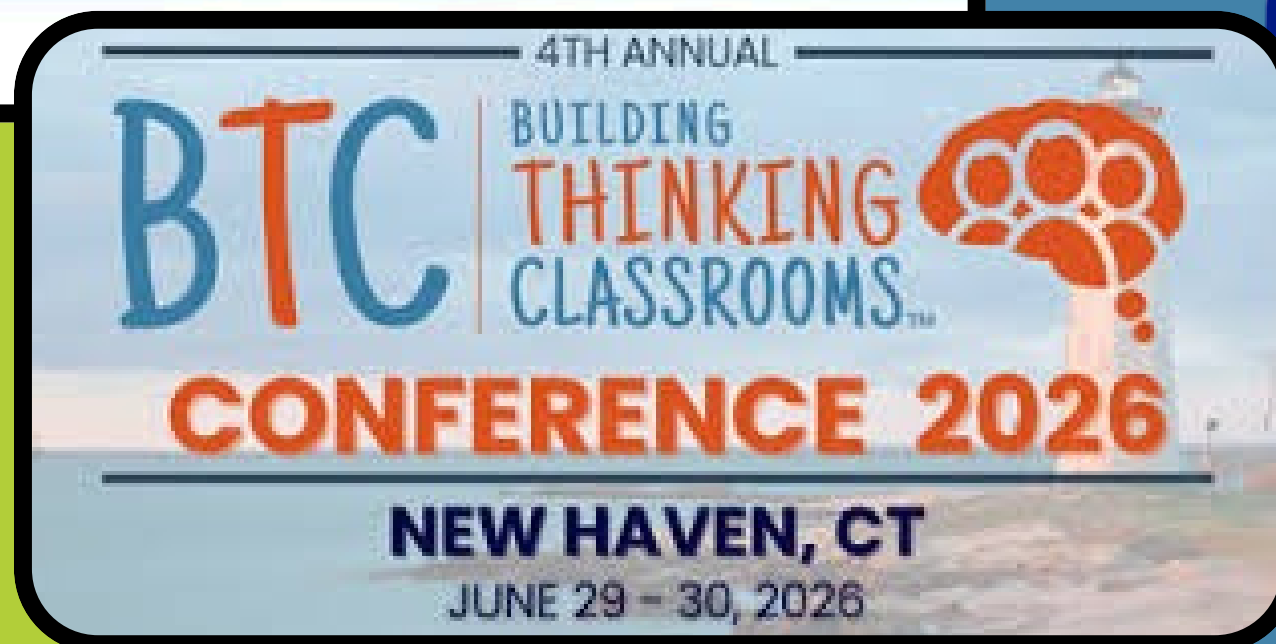
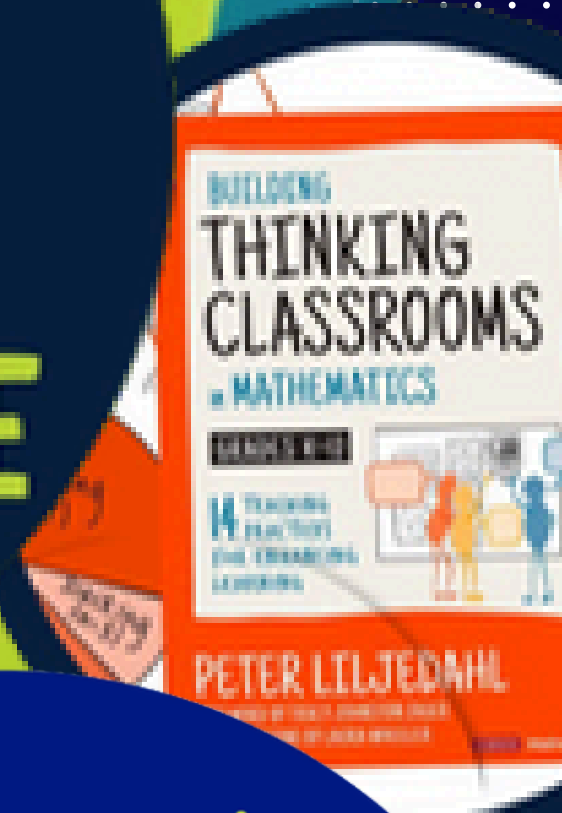
KEEP
INDIANA
LEARNING

&

FRANKLIN
COMMUNITY SCHOOLS
Student-Centered • Innovative

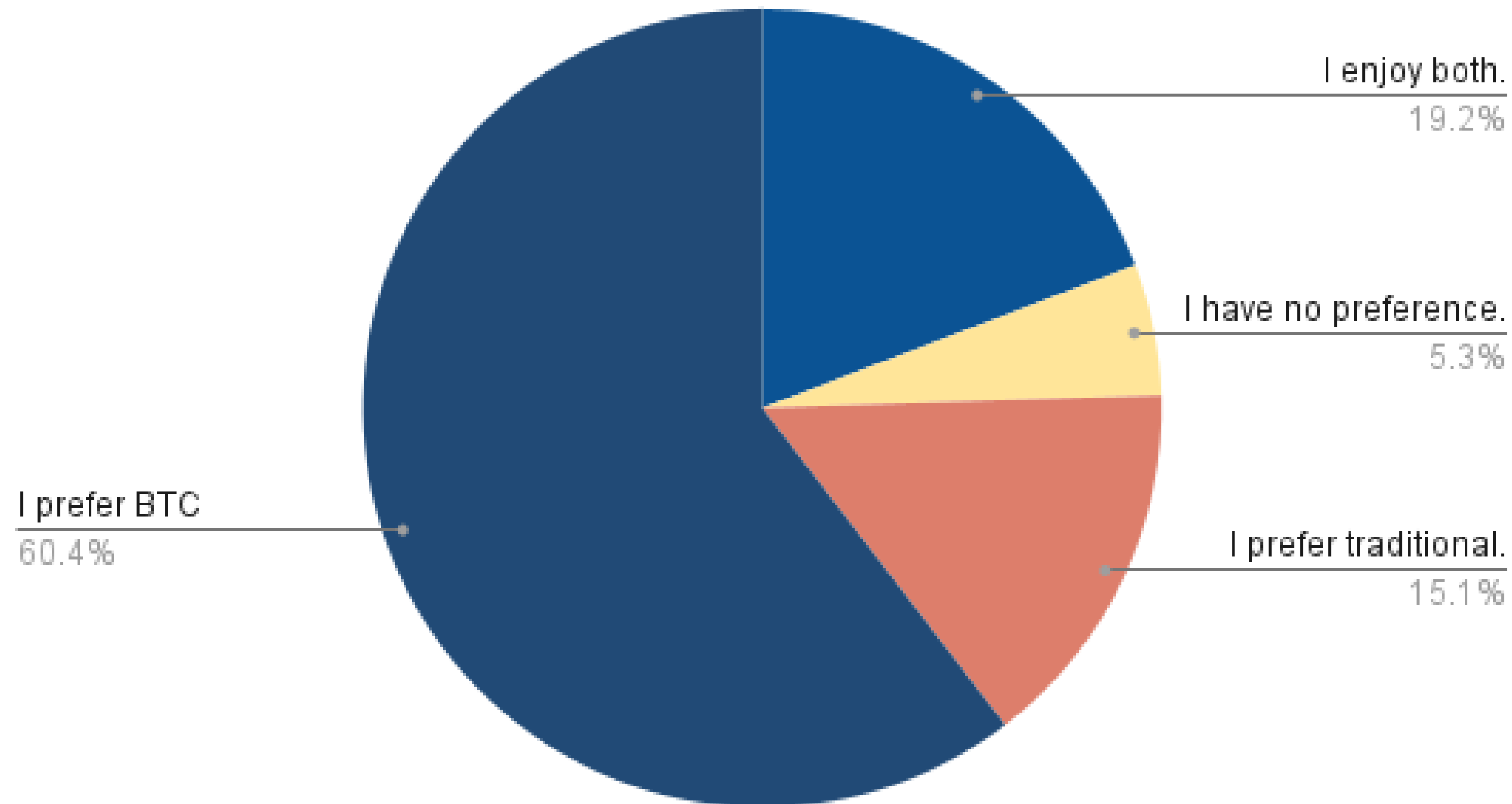
Attract International Audience to Franklin Through the Inaugural Building Thinking Classrooms Conference

**BUILDING
THINKING
CLASSROOMS
CONFERENCE
2023**



STUDENT SUSTAINED...

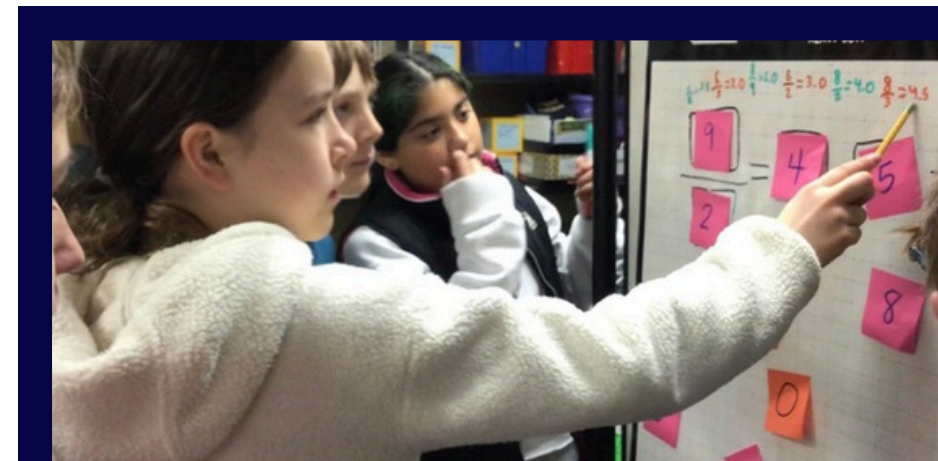
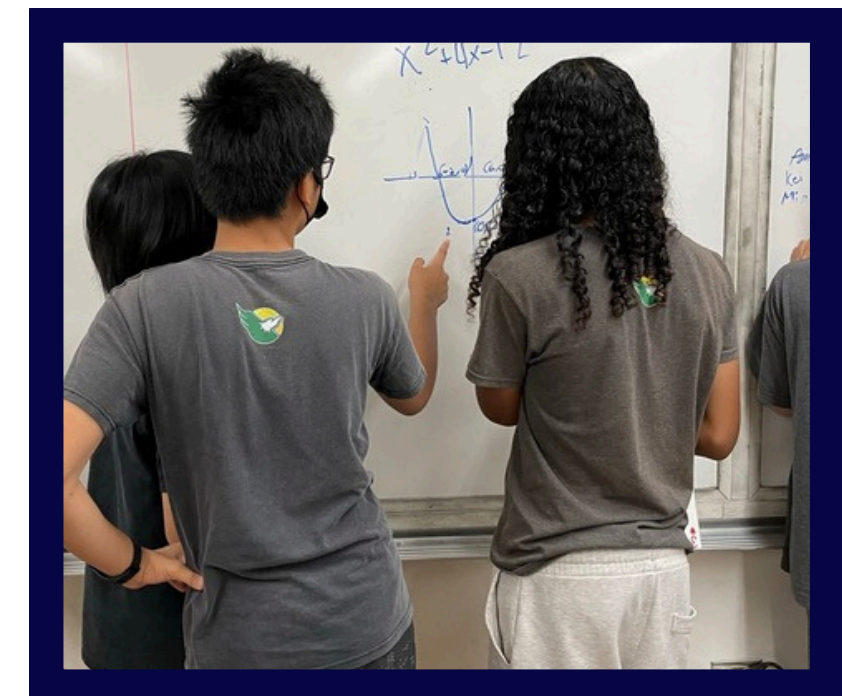
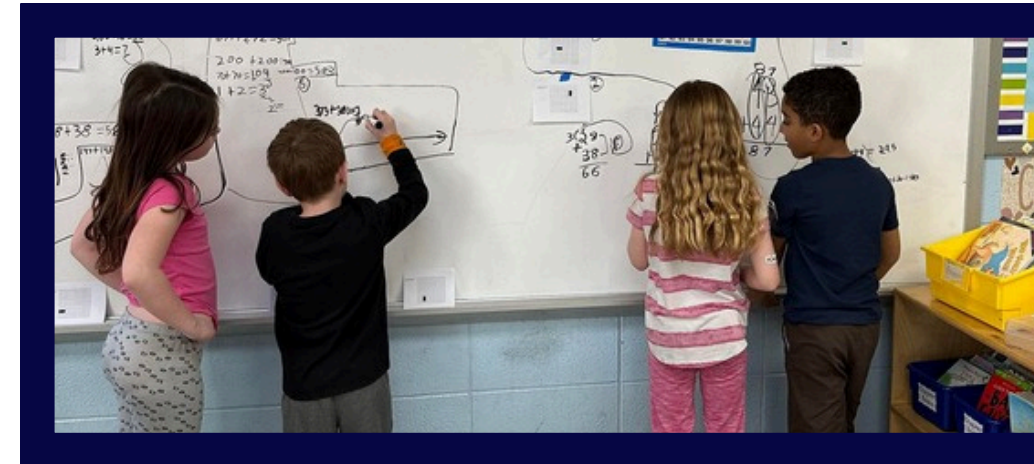
Would you prefer to continue learning in a Building Thinking Classroom model in the future?



The Voices of BTC



...TEACHER DRIVEN



A WEEK WITH PETER LILJEDAHL

Building Thinking Classrooms at Franklin Community Schools

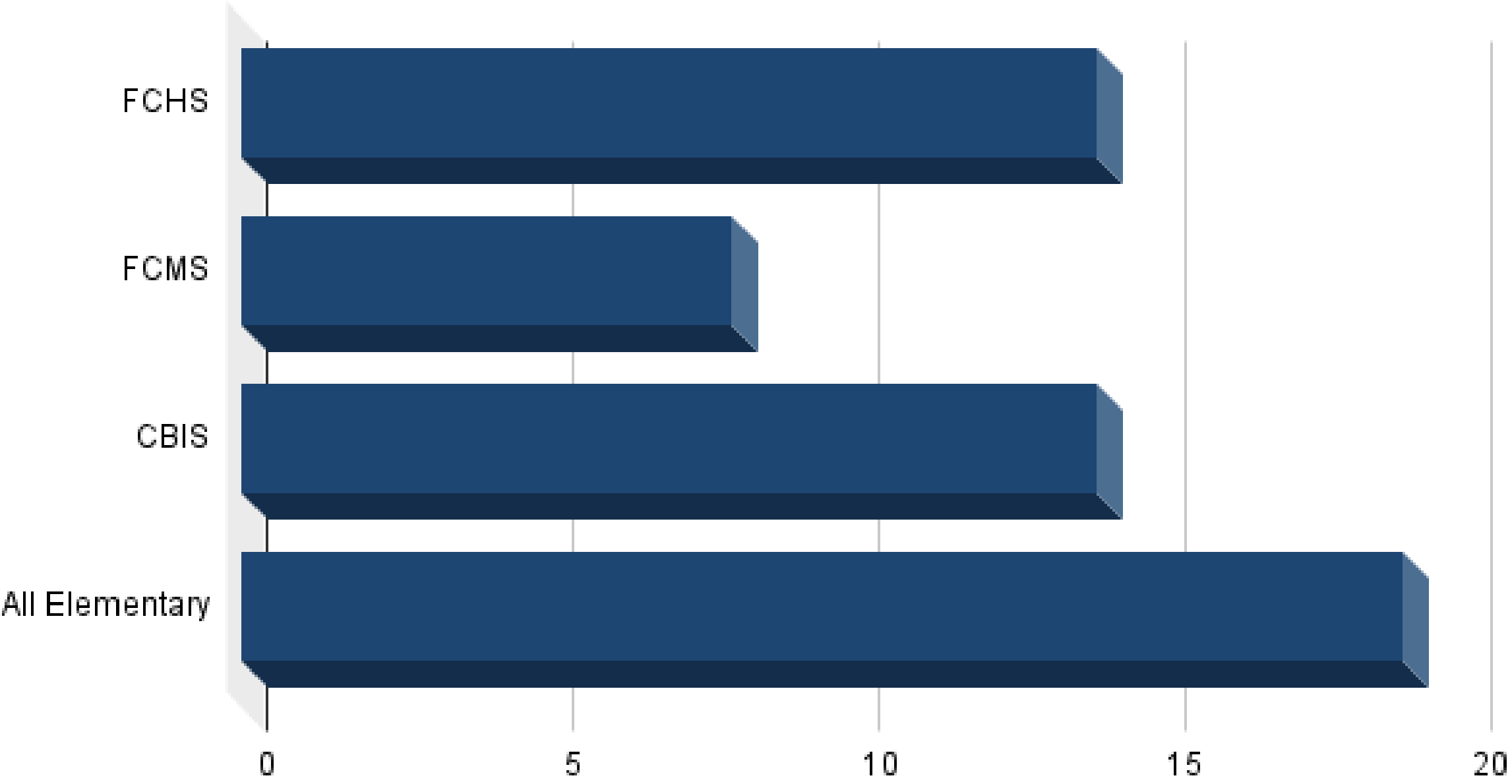
A week with Peter Liljedahl

Feb 9 <i>Monday</i>	Franklin Community Middle School <i>625 Grizzly Cub Drive</i>	
<i>TIME</i>	<i>ACTIVITY</i>	<i>Location</i>
8:00 - 9:15	Gallery Classroom 1: Co-Planning	
9:15 - 10:15	Gallery Classroom 1: Classroom Observations	
10:15 - 11:00	Gallery Classroom 1: Debrief	
11:00 - 12:00	Collaborative Cross Grade Level Lunch (<i>60m</i>)	
12:00 - 1:00	Gallery Classroom 2: Co-Planning	
1:00 - 2:00	Gallery Classroom 2: Classroom Observations	
2:00 - 3:00	Gallery Classroom 2: Debrief	

**x 5 Days
+ PM PD**

INTEREST SURVEY

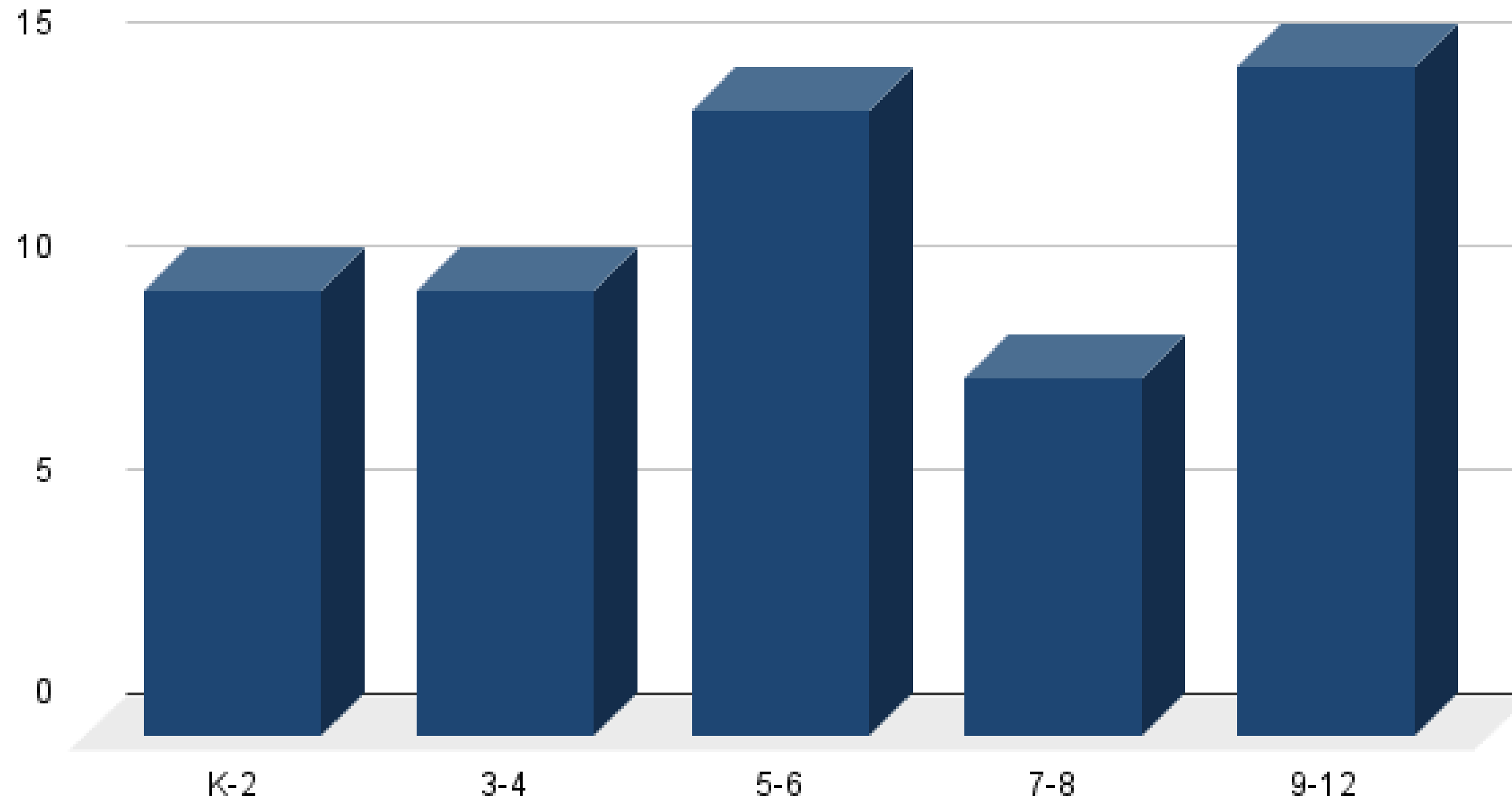
Interested Schools:



INTEREST SURVEY

Interested Schools:

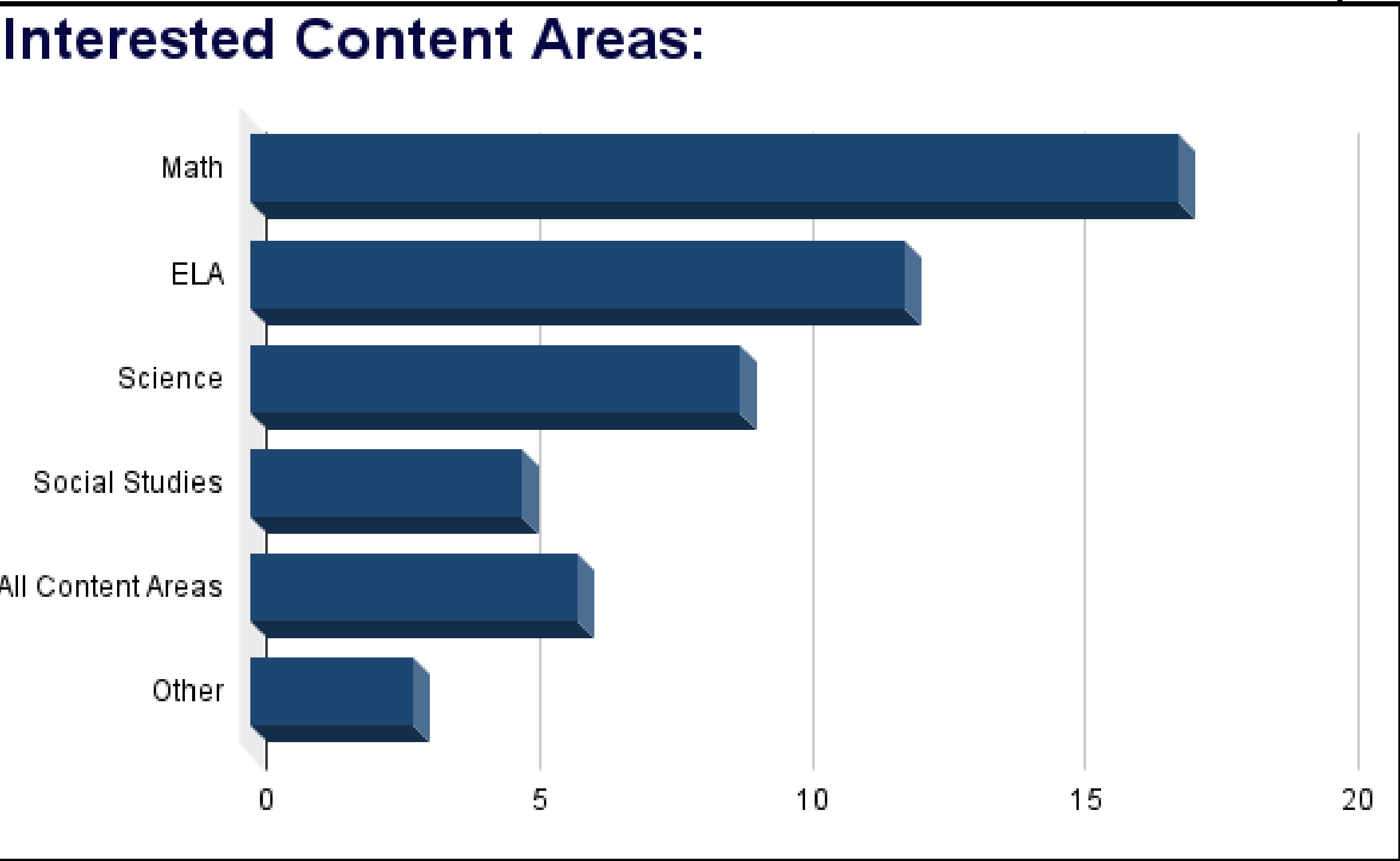
Interested Grade Bands:



INTEREST SURVEY

Interested Schools:

Interested Grade Bands:



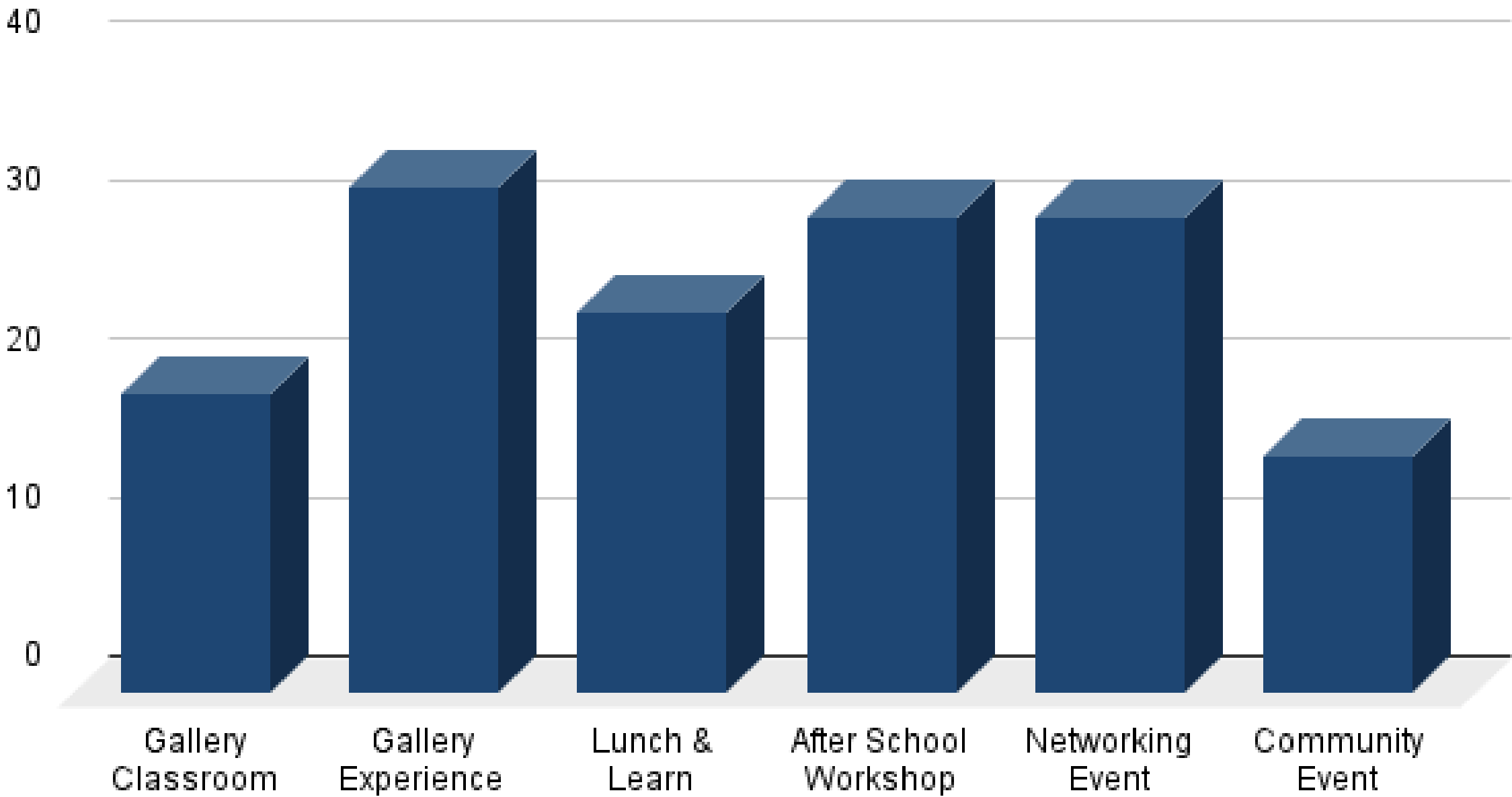
INTEREST SURVEY

Interested Schools:

Interested Grade Bands:

Interested Content Areas:

Interest in Opportunities:



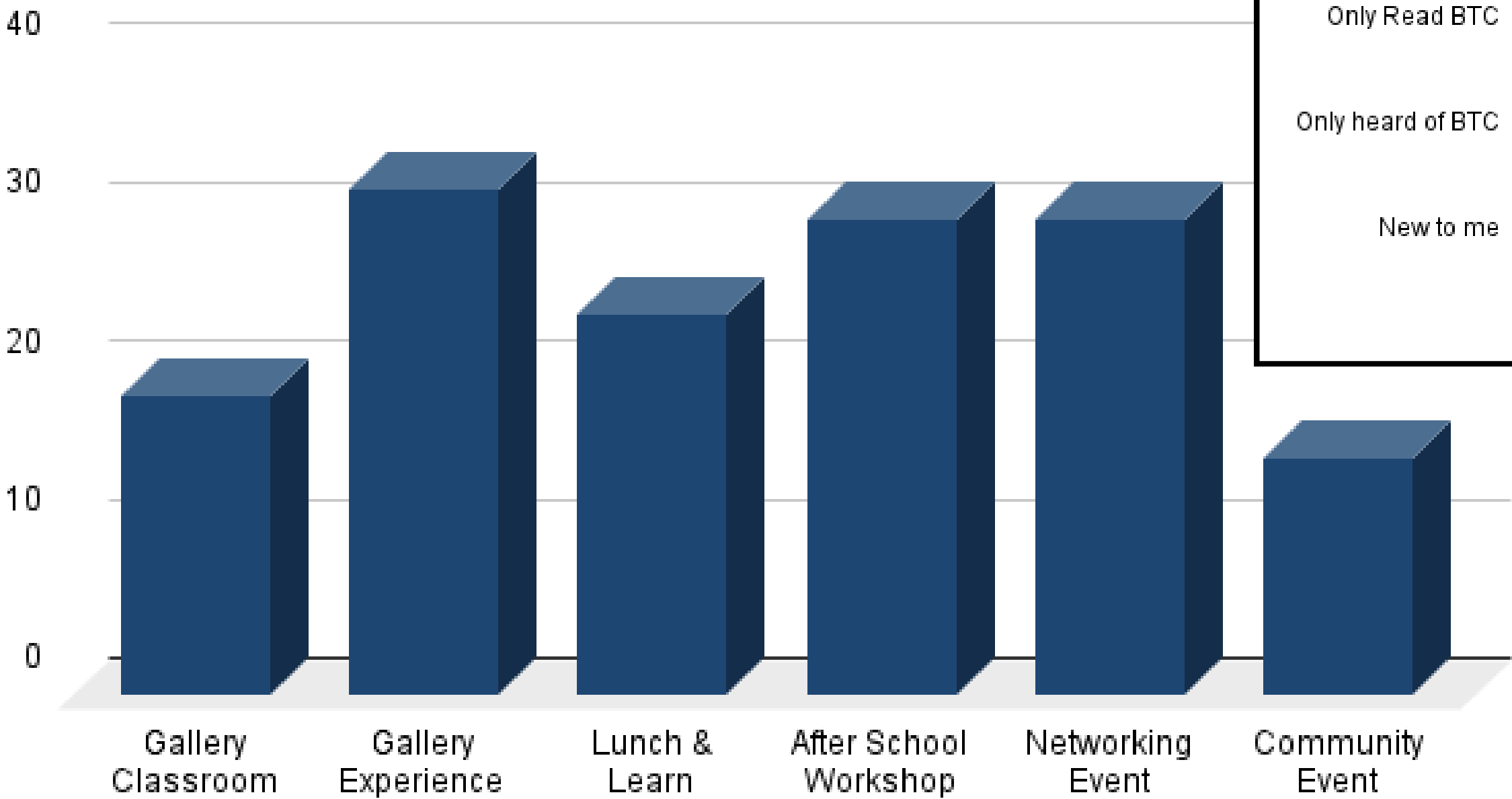
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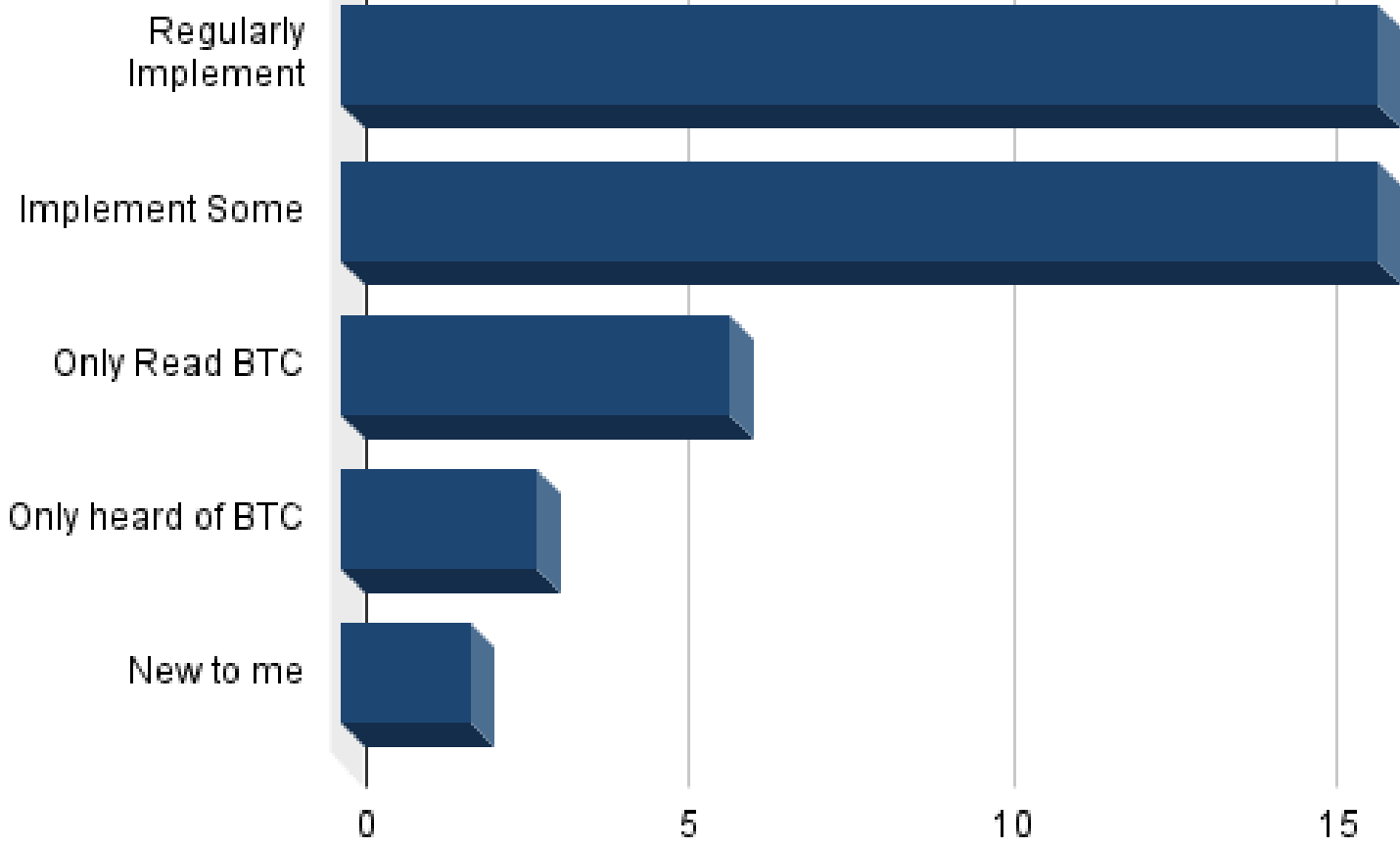
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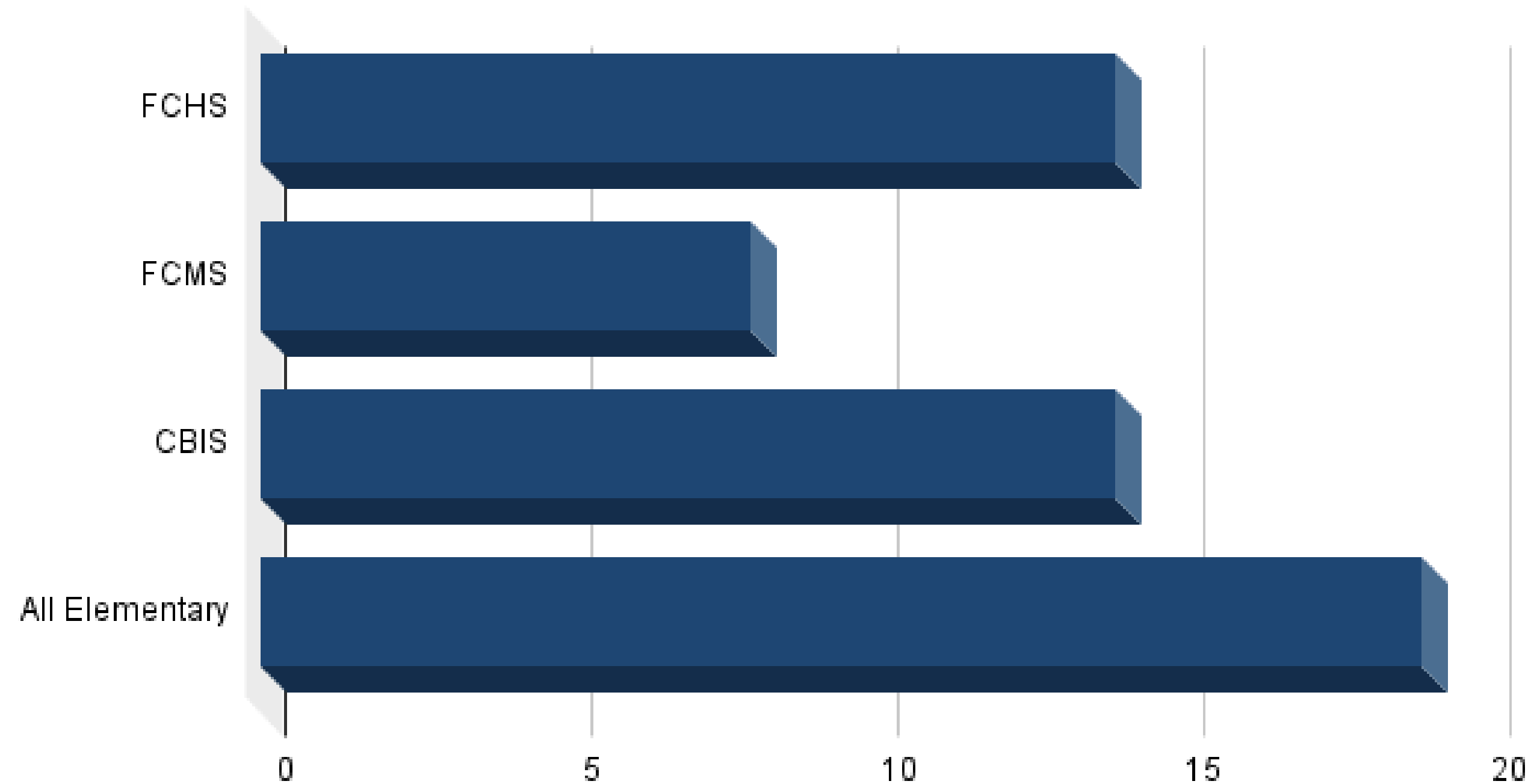


BTC Familiarity



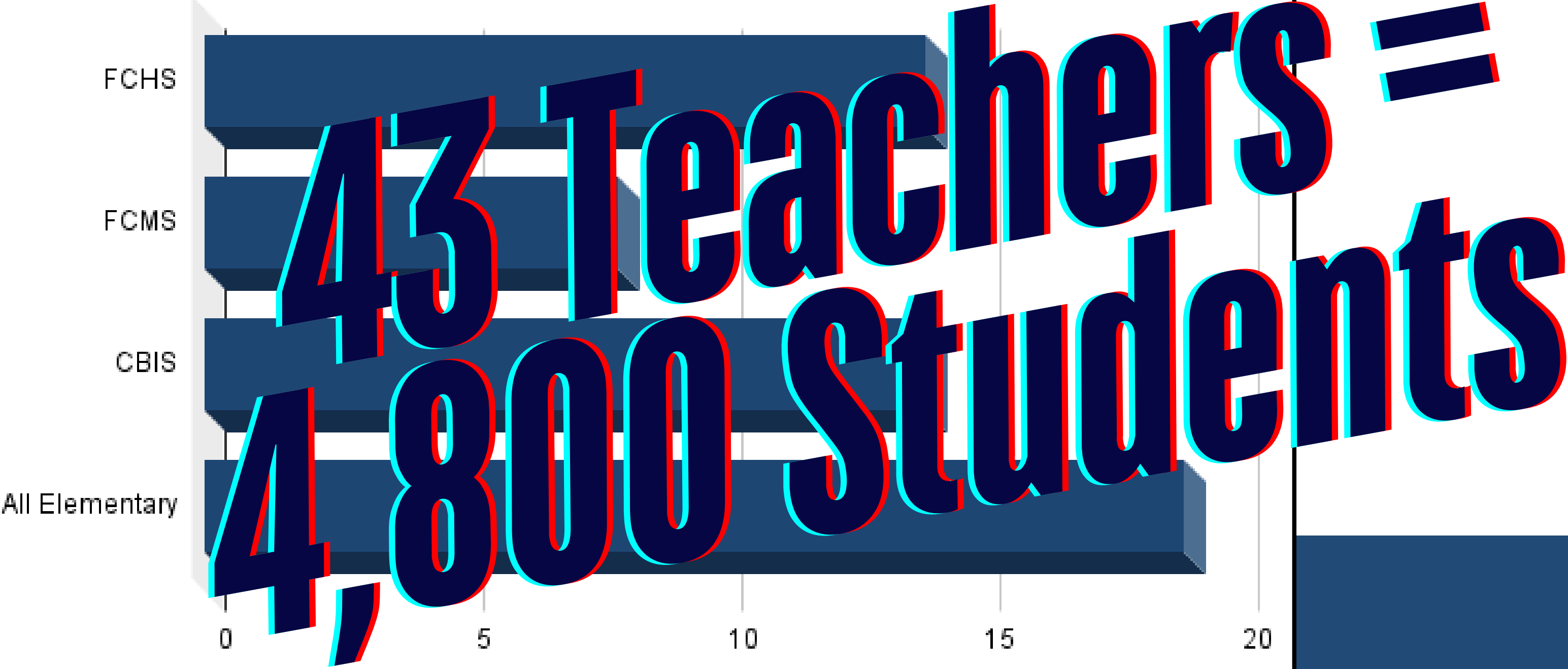
PROJECT IMPACT

Interested Schools:



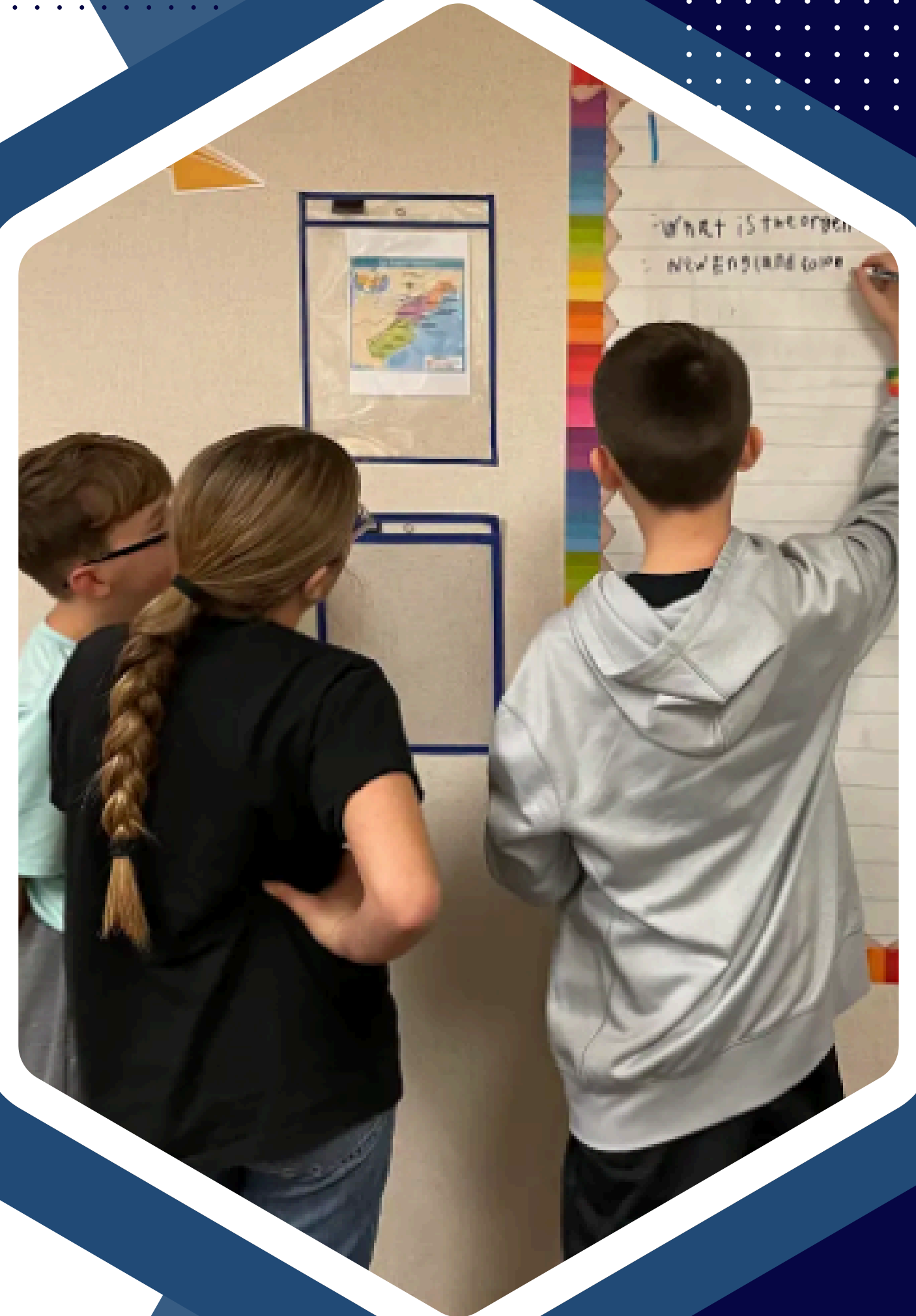
PROJECT IMPACT

Interested Schools:



FUNDING SOURCES

- ▶ **FEC \$15,000**
- ▶ **Title II Grant \$10,000**
- ▶ **McGraw Hill \$10,000**
- ▶ **Ticketed Event (80%)**



THANK YOU FOR YOUR TIME & SUPPORT



Questions or Clarifications

Please let us know how we can clarify this project further. We are open to questions, comments, and feedback now or at a later date. You can also find the entire project proposal here: bit.ly/4blv6Ww

Contact

Melisa McCain
FCHS Assistant Principal
317 346-8024

