

# **Collaborative Learning and Study Support: Piloting an Integrated Tier 2 Behavior and Academic Intervention in High School**

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# Learning Objectives

By the end of the session,  
attendees will be able to:

Describe	Describe how academic and behavior instruction strategies can be integrated within Tier 2 frameworks to support ninth-grade students.
Explain	Explain how coaching and feedback can be conducted to promote student engagement and use of newly taught study and engagement strategies.

## Road Map

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Tier 2 Features

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Collaborative Learning and Study Supports

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Implementation

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Closing

# Characteristics of High School Drop Out

- Academic failure
- Grade retention
- Disability diagnosis
- Academic failure
- Challenging behavior
- Low attendance

## Ninth-Graders & Student Success

- 9th graders are most vulnerable
  - Less engagement with school
  - Fewer adult and peer relationships
  - More disruptive/challenging behavior
  - Lower attendance
  - Lower course performance

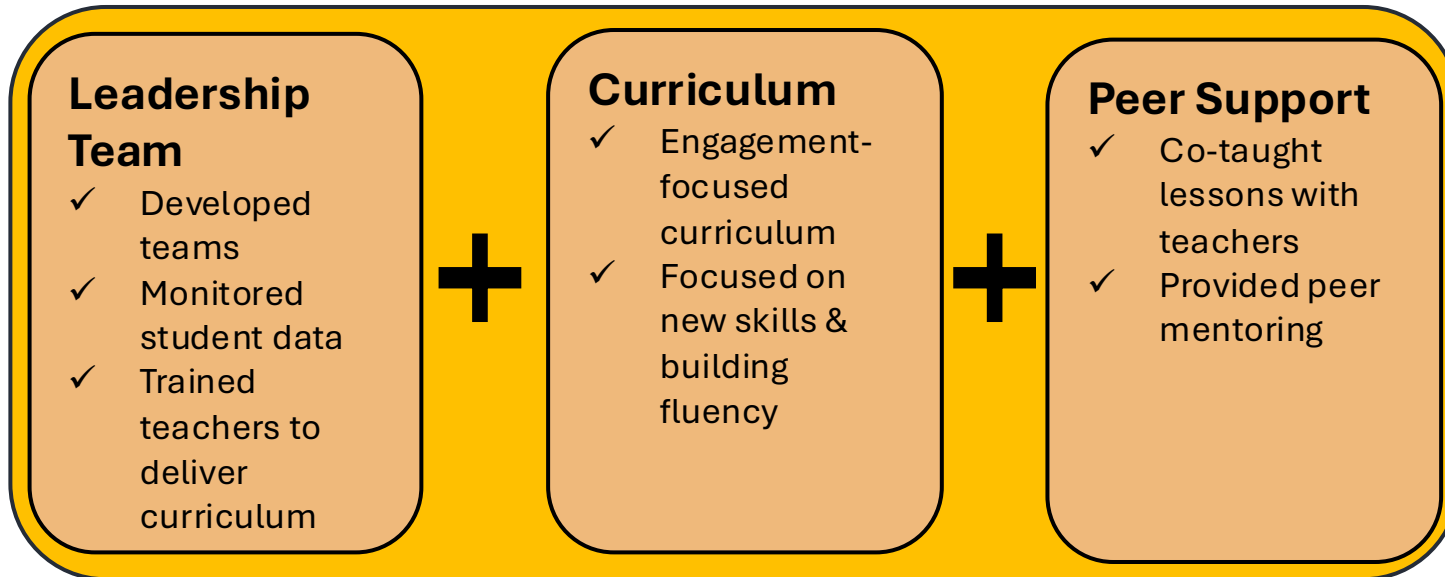




**Linked to  
dropout but  
ALTERABLE**

# Previous Work Supporting Ninth-Graders

## Freshman Success:

- 14 Lessons
  - Behavioral engagement (e.g., prioritize tasks)
  - Cognitive engagement (e.g., graduation requirements)
  - Emotional engagement (e.g., school resources)



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## A Tier 1 Intervention to Increase Ninth Grade Engagement and Success: Results From a Randomized Controlled Trial

K. Brigid Flannery, Mimi McGrath Kato, Angus Kittelman, Kent McIntosh, and Danielle Triplett  
University of Oregon

Although high school graduation rates are improving, many students are still not successful. Research has documented that 9th grade is a pivotal year in determining whether a student will graduate or drop out. The purpose of this randomized controlled trial was to assess the effects of a Tier 1 intervention model (freshmen success) for 9th grade students to increase school engagement, attendance, credits earned, and grade point average (GPA). This study included 1,588 students in ninth grade across 4 comprehensive high schools. Treatment schools implemented the freshmen success components: a 9th grade leadership team, a curriculum, and support from peer navigators. Control schools continued business as usual. Results showed statistically significant and educationally meaningful effects on student motivation, engagement and attendance, and a moderate-to-large effect for credits earned. However, there was no significant effect found for GPA.

**Impact and Implications**






This study demonstrates that the freshman success model, when implemented with fidelity, increased 9th grade student engagement, attendance, and credits earned. However, the intervention was not associated with significant improvements in grade point average.

*Keywords:* high school, attendance, school engagement, prevention

Although graduation rates are improving nationally, too many students still do not complete high school. School dropouts, when compared with their graduating peers, are more likely to be unemployed or underemployed, live in poverty, have poor health, and become involved in criminal activities (Belfield, Levin, & Rosen, 2012; Christle, Jolivette, & Nelson, 2007; McFarland, Cui, & Stark, 2018). Research has documented that the path to dropping out is a gradual process of diminishing school engagement (Reschly & Christenson, 2012) and, for many, begins with the transition from middle to high school (Allensworth & Easton, 2005; Benner, 2011; Somers & Garcia, 2016). In particular, ninth graders have been shown to have lower attendance rates (Jerald, 2006), higher rates of disciplinary action (Flannery, Fenning, McGrath Kato, & Bohanon, 2013; Kaufman et al., 2010; Spaulding et al., 2010), and lower course performance (Allensworth & Easton,

2007; Roderick, Kelley-Kempe, Johnson, & Beechum, 2014) than their older peers. In fact, Allensworth and Easton (2007) found that students who fell behind in ninth grade had a graduation rate that was 60% lower than that of students who were able to stay on track during the ninth grade year.

To prevent high school dropout, a growing body of research supports the implementation of multitiered systems of support (MTSS) to foster student engagement, positive social interactions, and academic achievement for all students (Brown-Chidsey & Steege, 2010; Goss & Andren, 2014). MTSS provides a framework for schools to implement evidence-based interventions as they supply (1) systems needed for initial and sustained implementation, (2) guidance in the selection and implementation of practices that match the needs of the school, and (3) systems for using data to identify areas of concern and guide decision-making regarding interventions (Ervin, Schaughency, Matthews, Goodman, & McGlinchey, 2007; Sugai & Horner, 2009). This continuum of supports begins with the whole school and becomes more intensive and individualized based on student need. Tier 1 (i.e., universal, schoolwide) emphasizes prevention and is designed for all students, adults, and school contexts. The Tier 2 (i.e., targeted) consists of efficient interventions offered to groups of students

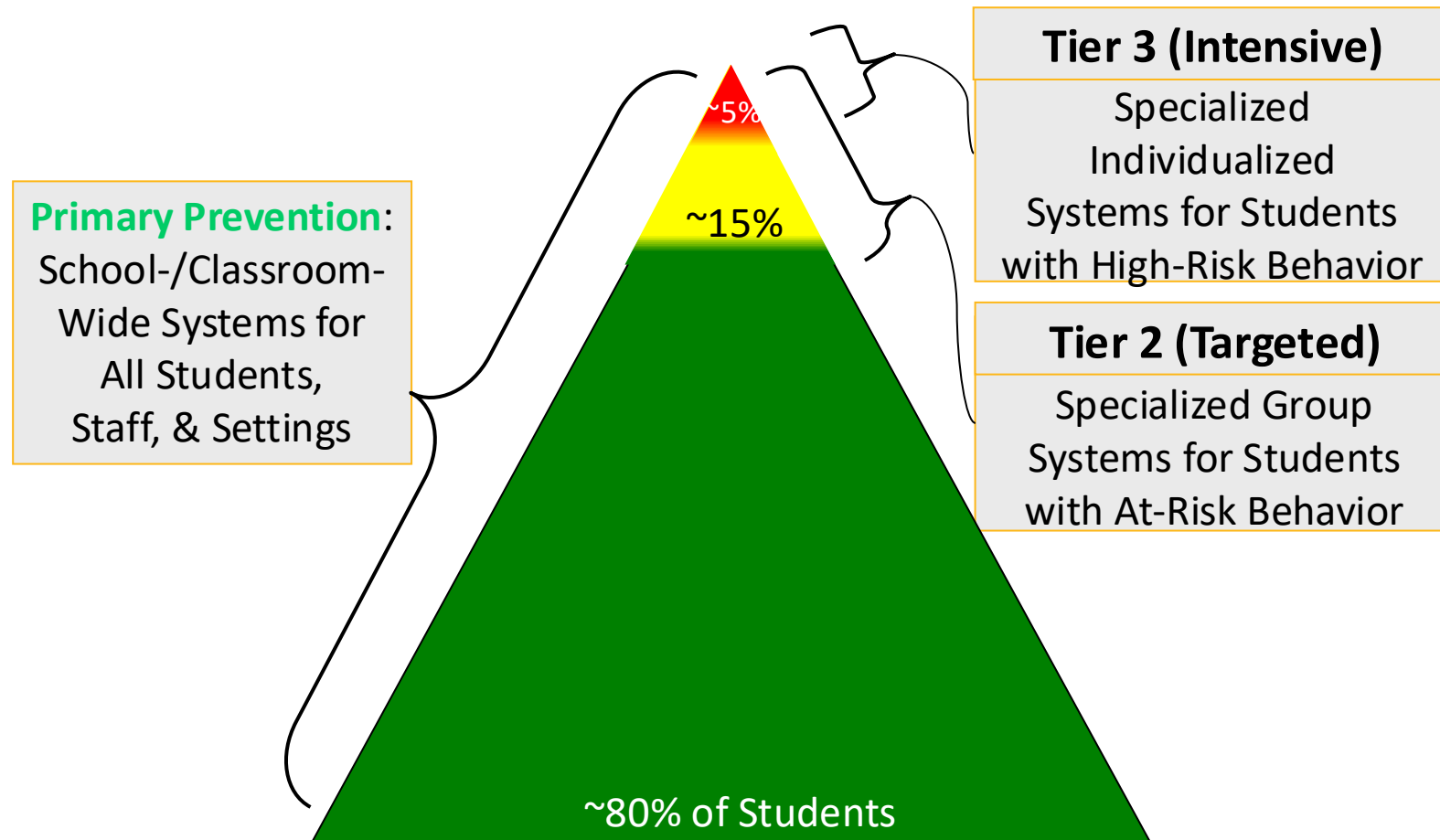
This article was published Online First December 12, 2019.  
 K. Brigid Flannery,  Mimi McGrath Kato,  Angus Kittelman,  Kent McIntosh, and  Danielle Triplett, Department of Educational and Community Supports, University of Oregon.  
 The research reported here was supported by the Institute of Education

## More is Needed...

- Universal interventions (e.g., Freshmen Success) are Tier 1 programs
- Students at risk for school failure need:
  - More structure and support
  - Increased positive adult, peer interactions
  - Organizational/study skill building
    - Academic skills: note-taking, concept mapping, writing strategies
    - Behavioral skills: self-monitoring/regulation, goal setting, planning and organization, prioritizing, relationship building

## Tier 2

- Targeted supports that build on Tier 1 systems
- Intensified supports for students not responding to Tier 1
- Designed to reduce risk for serious social, emotional, or behavior needs
- Facilitated by a Tier 2 team

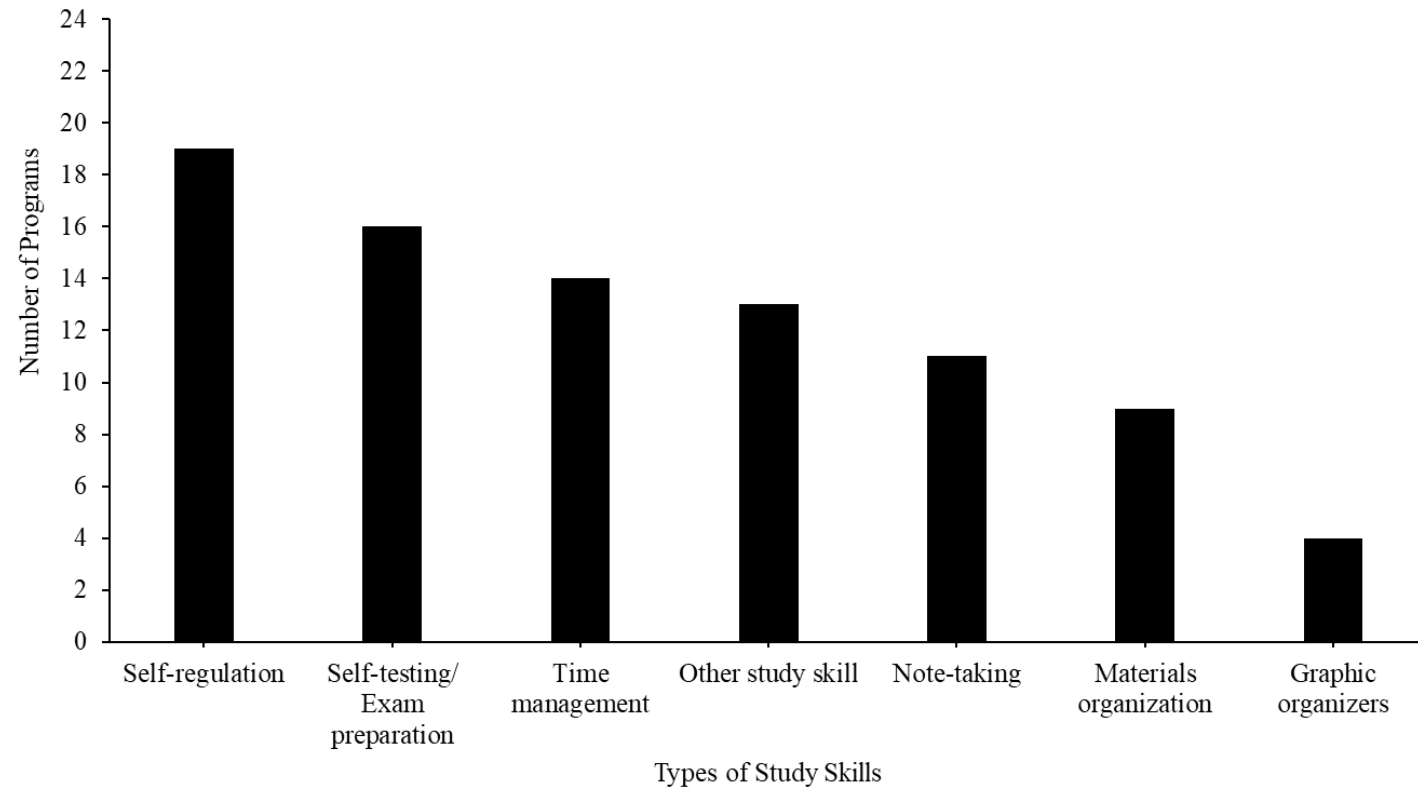


## Components of Tier 2 Interventions

- Standardized implementation
- Builds on Tier 1 supports
- Linked to function
- Quickly accessible
- Direct instruction and repeated feedback
- Time limited
- Adaptable

## Tier 2 Academic and Behavioral Practices

- Key findings (24 studies)
- Most common study skills:
  - Self-regulation
  - Exam preparation
  - Time management
  - Note-taking
  - Organization
  - Graphic organizers
- **Only four articles were completed in high schools**



# Collaborative Learning and Study Supports (CLASS)

## Project CLASS

- Curriculum for teaching academic and behavioral skills
- **Academic skills:** Note-taking, concept mapping, graphic organizers
- **Behavior skills:** Self-monitoring/self-regulation, goal setting, planning and prioritizing
- Adult coordination and support
- Peer coaching and support
- Facilitate peer learning groups

## PROJECT CLASS

COLLABORATIVE LEARNING  
AND STUDY SUPPORT



# Academic Skills

## LESSON: CONCEPT MAPPING

Estimated time: 30-45 minutes

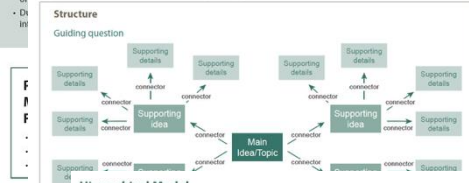
### OVERVIEW

This lesson focuses on student-created concept maps. A concept map is a graphic organizer that helps students visualize and structure their knowledge by linking key concept words, or short phrases to form meaningful connections. Learning with a concept map can involve creating a concept map, studying existing teacher-created concept maps, or completing a fill-in-the-blank concept map.

The process of creating a concept map fosters meaningful learning because learners must actively select relevant information to create nodes to represent key concepts (e.g., Electricity,  $W = I \times V$ , Energy), and integrate new information with existing knowledge.

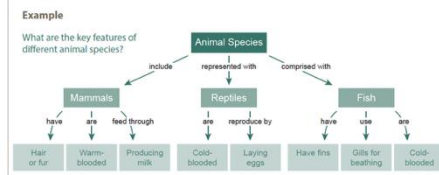
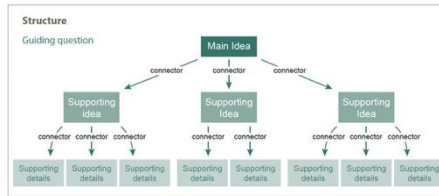
### Why Concept Mapping is Helpful

The spider model features the main concept at the center, with directional arrows extending in various directions to represent related ideas and subtopics. This layout resembles a spider's web, facilitating the exploration of connections and enhancing the organization of information.



**Structure**  
Guiding question: \_\_\_\_\_

**Example**  
What are the key features of different animal species?



## LESSON: FRAYER MODEL

Estimated time: 30-45 minutes

### OVERVIEW

This lesson focuses on student-created Frayer Models. The Frayer Model is a graphic organizer designed to enhance students' understanding of vocabulary words. The Frayer Model helps students expand upon new terms or concepts by learning the definitions, characteristics, examples, and non-examples. This approach fosters vocabulary learning by encouraging active engagement with the word at various stages of instruction.

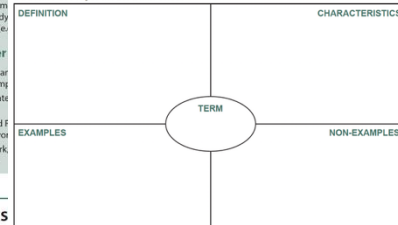
The process of creating a Frayer Model involves selecting relevant information to define a term, identifying its characteristics, examples, and non-examples.

### Why the Frayer Model is Helpful

The Frayer Model is an effective graphic organizer for instruction. For example, it can be used to:

- Enhance students' understanding of a term or concept.
- Provide a structure for students to create their own Frayer Models.
- During group work, students can compare and contrast their Frayer Models.

Structure of Frayer Model Bank Sheet



### MATERIALS LESSON

- Frayer Model graphic organizer
- Markers
- Pencils

### OPERATION

The Frayer Model is a graphic organizer that helps students understand a term by identifying its definition, characteristics, examples, and non-examples.

Example of Frayer Model

**DEFINITION**  
The Cold War was a period of military rivalry and political tension between the Soviet Union and the United States from 1947 to 1991.

- EXAMPLES**
- Cuban Missile Crisis
  - Vietnam War
  - Soviet Invasion of Czechoslovakia
  - Vietnam War II
  - South Vietnam
  - Vietnam
  - Vietnam

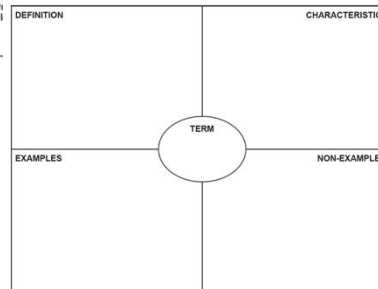
### FRAYER MODEL WORKSHEET

#### Directions:

Select one term/concept below. Then, define the term in the Definition box. Next, identify characteristics of the term/concept. Last, identify examples and non-examples of the term/concept. Be sure to review your completed model.

#### Options for Terms/Concepts:

- Human migration
- Civil Rights
- Photosynthesis
- Conflict resolution
- Prioritizing



## LESSON: NOTE-TAKING

Estimated time: 30-45 minutes

### OVERVIEW

This lesson focuses on note-taking. Note-taking is a process of recording important information presented during lectures, through online materials, or independent reading activities. It is an important skill for identifying, understanding, and retaining new information. Note-taking involves identifying key points, summarizing information, organizing notes with headers and structures.

### Why Note-taking is Helpful

- Learning activities and retrieval practice:
- Enhance
  - Increase
  - Provide

### CORNELL NOTE-TAKING

Although there are many ways to take notes, this lesson will focus on one type – the Cornell Note-taking System. The Cornell note-taking system is an organized method for recording and reviewing notes. This system divides a page into three sections: Notes, cues, and summary. The purpose of Cornell notes is to have a dedicated space to write notes, ask questions or develop topic statements, and summarize what was learned from the reading.

### Sections of Cornell Note-taking:

1. Notes include:
  - Key ideas, details, and explanations from materials.
  - Organized and concise information to capture essential key points.
2. Cues include:
  - Questions about the material.
3. Summary includes:
  - Brief overview of the material.

### MA FOI

- Write
- Page

### OPERATION

Note-taking graphic organizer

**Structure**

Write key concepts or questions in the left margin under "Cues"

Summarize the notes at the bottom of the page.

Example: "The life progression of a frog includes four main stages: ..."

TITLE: THE LIFE PROGRESSION OF FROG		
CUES	NOTES	
What are the stages of a frog's life cycle?	Egg stage	
	- Frogs lay eggs in water	
	- Typically found in freshwater	
	- Eggs last a few days to a couple of weeks	
How does a tadpole differ from an adult frog?	Tadpole stage	
	- Eggs hatch into tadpoles	
	- Have tails, gills, and live underwater	
	- Herbivores: eat mostly algae	
	- Legs start forming as they get older	
What is the difference of a froglet and tadpole?	Froglet stage	
	- Tadpole now has legs and lungs	
	- Tail begins to shrink	
	- Start breathing air and can leave water for a brief time	
	- Eat small insects	
	Adult frog stage	
	- Fully developed frog	
How does a frog's diet change over time?		
	- Can live fully on land and in water	
	- Thrive on a moist environment	
	- Carnivorous diet - eats insects, spiders, and other small invertebrates	
	- Return to water to lay eggs	
	- Complete the life cycle	
<b>SUMMARY</b>		
The life progression of a frog includes four main stages: egg, tadpole, froglet, and adult frog. Frogs start as eggs in water, hatch into tadpoles, and gradually develop legs and lungs to become froglets. Eventually, they grow into adult frogs, capable of living on land and reproducing to continue the life cycle. Each stage has adaptations that allow the frog to survive in its changing environment.		

# Behavior Skills

## LESSON: STAYING ENGAGED

Estimated time: 15-20 minutes

### OVERVIEW

Staying engaged means staying focused and actively participating during class activities. It may involve paying attention, asking and answering questions, following teacher directions or requests, and taking notes.

#### Why Stay Engaged?

When students are engaged, they are more likely to experience academic success and have positive relationships with teachers and students. Staying engaged helps to:

- Improve comprehension and understanding of new material.
- Increases motivation and interest in new topics.
- Improves academic performance (higher grades, scores on tests).
- Improves student well-being and relationships with adults and peers.

STAYING ENGAGED WORKSHEET				
MFC • P • P	TYPE OF INSTRUCTION	EXAMPLES	BARRIERS	SOLUTIONS
	WHOLE CLASS INSTRUCTION			
	SMALL WORK GROUP			
	INDEPENDENT			

OPE  
Staying oriented and an

## LESSON: GOAL SETTING

Estimated time: 15-20 minutes

### OVERVIEW

Goal setting is the process of identifying specific, measurable, and time-bound objectives that guide efforts and actions toward achieving desired outcomes. It involves clarifying what one wants to accomplish, setting milestones to track progress, and creating a plan to reach those milestones.

When a goal is specific and measurable, it is easier to track progress and stay motivated.

Goal setting helps to:

- Build a roadmap to achieve your goals.
- Identify specific goals and track progress.

### DIFFERENT TYPES OF GOALS

There are different types of goals students can create. These include short-term goals (achievable in weeks), mid-range goals (achievable in months), and long-term goals (achievable in years).

#### Short-Term Goals

Short-term goals are designed to be achievable within a few weeks. These goals provide students with quick feedback on their progress and serve as steppingstones for larger, long-term goals.

### MATERIALS FOR

- Pencils
- Paper
- Laptop/Chromebook

#### Example

*For the next six weeks of the semester, I will meet with my Algebra I teacher once a week to confirm that I have completed all homework assignments.*

#### Non-Example

*I will improve my grade in my Algebra I class.*

### OPERATIONAL DEFINITION

Goal setting is a strategy to identify and achieve specific behavior and performance. Goal setting involves motivation, and self-regulation.

#### Example

*For the next three weeks, I will attend Language class.*

#### Non-Example

*I will not be tardy in any class.*

#### Mid-Range Goals

Mid-range goals are designed to be achievable within months. These goals act as steppingstones between short-term goals and long-term goals.

#### Example

*By the end of the semester, I will improve my overall grade in my Algebra I class from a D to a B.*

#### Non-Example

*By the end of the semester, I will get an A in my Algebra I class because I will get 95% or better on every quiz and test in the class.*

#### Long-Term Goals

Long-term goals are typically designed to be achieved over a year or longer. These goals are often broad in scope and require sustained effort and dedication over time.

#### Example

*For the end of the school year, I will have passed on my classes with a B or better grade and be on track to graduation.*

#### Non-Example

*I will work harder on communicating and building a positive relationship with my Algebra I teacher.*

# Newer Skills

## Welcome to Collaborative Learning and Study Support (CLASS)

Estimated time: 15-20 minutes

### INTRODUCTION AND PURPOSE

The purpose of this essential skills needs school and become

### TAKEAWAYS

Every student has unique goals for high school and beyond. The CLASS program is designed to help students build the academic and behavioral skills needed to reach those goals, whether that means graduating high school, attending college, entering the workforce, or pursuing another meaningful path.

### PROGRAM O

The CLASS program organized, engaging

The program is a sta and feasible for impl

### GOAL SETTING ACTIVITY

1. Explicit Instru behavioral skill prepare for coll
2. Collaborative F to learn and pra sessions, small g
3. Adult Coordin collaborative p progress monit

The purpose of this activity is to have students identify, share, and reflect on a long-term goal that they aim to accomplish after high school.

SMART is an acronym that stands for Specific, Measurable, Achievable, Relevant, and Time-Bound. Although SMART can be used to create all types of goals, it is especially effective for setting short-term goals, as it helps ensure they are clear, focused, and attainable within a set timeframe.

On a SMART GOAL WORKSHEET, students should write down at least one long-term goal they would like to accomplish after high school related to college or career readiness. Long-term goals are typically designed to be achieved over a year or longer, so for this exercise, we will focus on long-term goals that will take until after high school to complete. These goals may initially be broad in scope and require sustained effort and dedication over time, so we will revisit them later.

#### Examples of Long-Term SMART Goals

- After high school, I will go to a 2-year trade school to learn about manufacturing and mechanics so I can work in the automotive field.
- After I graduate from high school, I will attend a 4-year college program to earn a degree in business.

#### Non-Examples of Long-Term SMART Goals

- After high school, I want to get a good job
- I will work harder at communicating

## LESSON 6: ASKING FOR HELP

Estimated time: 20-25 minutes

### OVERVIEW

Asking for help is a universal experience. At some point, all students encounter a moment when they need assistance or guidance. It may involve reaching out to your teachers, peers, or counselors in your school. Being able to seek help when students need it is a sign of awareness and strategy.

#### Asking

- 
- 
- 
- 

The following table provides possible reasons why students might seek help and whom they may ask. Notice how there are different types of people and communication methods depending on what kind of help is needed.

Example of an Asking for Help Chart

WHAT? What do I need help with?	WHO? Who should I ask?	HOW? How should I ask?	WHEN? When should I ask?
<ul style="list-style-type: none"> <li>• Homework Materials</li> <li>• Questions about concepts</li> <li>• Finding resources</li> <li>• What to study for</li> <li>• Grades</li> </ul>	Teachers or Adults	<ul style="list-style-type: none"> <li>• In Person (before class, after class, scheduled time)</li> <li>• Email</li> <li>• Paper – written request or question</li> </ul>	<ul style="list-style-type: none"> <li>• Before class, after class, scheduled time</li> <li>• During school hours</li> </ul>
<ul style="list-style-type: none"> <li>• Credit Recovery</li> <li>• Requirements to graduate</li> <li>• Clubs and activities</li> <li>• Class schedule and Attendance</li> </ul>	Counselor	<ul style="list-style-type: none"> <li>• In Person (before class, during class – if urgent)</li> <li>• Email</li> </ul>	<ul style="list-style-type: none"> <li>• Before class, after class, during class – if urgent</li> <li>• During School hours</li> </ul>
<ul style="list-style-type: none"> <li>• Question about specific homework question or assignment</li> <li>• Create a study group</li> <li>• Test date or homework due date</li> </ul>	Peer	<ul style="list-style-type: none"> <li>• In Person</li> <li>• Text/digital</li> <li>• Study Group</li> </ul>	<ul style="list-style-type: none"> <li>• During class, after class, passing period</li> <li>• After class, passing period, after school</li> <li>• Before or after school, during lunch</li> </ul>

#### OPI

Asking conce

## LESSON 7: PRIORITIZING & PLANNING

Estimated time: 35-45 minutes

### OVERVIEW

This lesson focuses on time management, a foundational skill necessary to help students balance schoolwork, extracurricular activities, and personal time. By learning how to prioritize tasks and structure their schedule, students can use a Decision Matrix (large Decision Matrix that I

#### Why Time Management

Time management is quizzes, or exam prep they are better able to students manage the

- Break down large tasks
- Anticipate and plan
- Balance academics and personal time

### MATERIAL FOR LESSO

- Lesson plan hand
- Writing utensil
- Blank paper or a notebook

### OPERATION

Time management in tasks are most import

Example of a Completed Eisenhower Matrix

IMPORTANCE	DO IT NOW (High Importance and High Urgency)	DECIDE WHEN TO DO IT (High Importance and Low Urgency)
	LOW	DELEGATE OR LIMIT (Low Importance and High Urgency)
	URGENCY	

Non-Example of a Completed Eisenhower Matrix

IMPORTANCE	DO IT NOW (High Importance and High Urgency)	DECIDE WHEN TO DO IT (High Importance and Low Urgency)
	LOW	DELEGATE OR LIMIT (Low Importance and High Urgency)
	URGENCY	

## LESSON 8: TEST-TAKING

Estimated time: 30-45 minutes

### OVERVIEW

The purpose of this lesson is to introduce students to various test-taking study strategies and to identify the most effective strategies for them to use. Selecting effective test-taking strategies can help students maximize retention and use their time effectively while preparing for tests and quizzes in their core classes.

Understanding when and how to use these strategies that work best for them

### Making Flashcards from Cornell Notes

Cornell notes are useful when creating flashcards because the "Cues" and "Notes" sections can be easily adapted for self-testing. The "Term" and "Definition" sections can be used to outline the specific topic of the flashcard or ask a question that can be answered in the definition section.

### MATERIALS FOR LESSON

- Pencils
- Paper
- Laptop/Chromebook

### OPERATIONAL C

Test-taking strategies, such as based study strategies that are. Understanding when best for them in terms of ti

### STUDY STRATE

This lesson focuses on ti

- Self-testing
- Interleaving & Blox
- Spaced repetition

### Example using Cornell Notes

Title: The Structure of a Cell

CUES	NOTES
<p>what is the function of the nucleus?</p> <p>what is the powerhouse of the cell?</p> <p>how does mitochondria produce energy?</p>	<p><b>Cell Membrane</b></p> <ul style="list-style-type: none"> <li>• Description: outer layer of the cell semi-permeable membrane that controls entry and exit of substances</li> <li>• Function: protects the cell, provides structure, and regulates what goes in and out</li> <li>• Analogy: acts like a security gate</li> </ul> <p><b>Nucleus</b></p> <ul style="list-style-type: none"> <li>• Description: control center of the cell, contains DNA</li> <li>• Function: directs cell activities, stores genetic information</li> <li>• Analogy: similar to a brain or command center</li> </ul> <p><b>Cytoplasm</b></p> <ul style="list-style-type: none"> <li>• Description: gel-like fluid that fills the cell and surrounds organelles</li> <li>• Function: supports and suspends organelles, allows chemical reactions to occur</li> <li>• Analogy: like the floor of a factory where work happens</li> </ul> <p><b>Mitochondria</b></p> <ul style="list-style-type: none"> <li>• Description: known as the "powerhouse" of the cell</li> <li>• Function: converts food into energy (ATP) through cellular respiration</li> <li>• Analogy: like a power plant providing energy to a cell</li> </ul>

Term: What is the "powerhouse" of the cell?

Definition: Mitochondria

# Student Facing Presentations

## WELCOME TO CLASS

### SMART GOALS

*"I will increase my participation in social studies by asking or answering at least three questions per class over the next two weeks."*

- SPECIFIC:** The goal specifies which class the student wants to increase participation in and how they will do that.
- MEASURABLE:** The number of questions asked or answered is measurable.
- ATTAINABLE:** Asking/answering three questions per class is achievable.
- RELEVANT:** This goal is relevant because it will increase the student's academic engagement in social studies.
- TIME-BOUND:** The student set a 2-week timeframe.

## ENGAGEMENT STRATEGIES

### PUTTING IT ALL TOGETHER!

Now, use the **Staying Engaged Worksheet** to do the following:

- Write down examples of what staying engaged looks like in different classroom contexts.
- Identify barriers to staying engaged.
- Identify solutions to help you stay engaged if you face barriers.

STAYING ENGAGED WORKSHEET			
TYPE OF INSTRUCTION	EXAMPLES	BARRIERS	SOLUTIONS
WHOLE CLASS INSTRUCTION			
SMALL WORK GROUP			
INDEPENDENT			

## OVERVIEW

### CREATING A CORNELL NOTE-TAKING TEMPLATE

**BEFORE CLASS**

**FORMAT**

- Divide & label sections

**TITLE**

- Main idea of notes

**TITLE: The Life Progression of Frog**

**CUES**

**NOTES**

**SUMMARY**

## CONCEPT MAPPING

### CONSTRUCTING A CONCEPT MAP

**STEPS & PROCEDURES**

- Write the guiding question at the top.
- Decide on a map format (hierarchical or spider).
- Write the **key concept** at the top of the page or the center of the page.
- Fill the page with the other relevant concepts.
- Draw in the relationships between concepts using directional arrows.

*"Using Post-it notes can be helpful for visualizing and moving concepts easier."*

## FRAYER MODEL

### CREATING A FRAYER MODEL

- Identify **KEY TERM**
- Complete **DEFINITIONS** Box
- Complete **CHARACTERISTICS** Box
- Provide **EXAMPLES**
- Provide **NON-EXAMPLES**
- REEXAMINE** Model
- FINALIZE** Model

## ASKING FOR HELP

### STEPS TO ASKING FOR HELP

- STEP 1: Self-Reflect on Whether Help is Needed**
- STEP 2: Decide Who Can Help You**
- STEP 3: Decide How & When to Ask for Help**

Knowing how and when to ask for help can help you get help faster.

When and how might you ask for help from a teacher or counselor?

When and how might you ask for help from peers?

## EISENHOWER DECISION MATRIX

### STEPS FOR CREATING A MATRIX

- STEP 1: IDENTIFY HIGH IMPORTANCE TASKS**
- STEP 2: IDENTIFY LOW IMPORTANCE TASKS**
- STEP 3: CONSIDER DEADLINES**

Write down due dates next to tasks that have deadlines.

Do you have any tasks that will take more than one day to complete?

Let's discuss!

## ENGAGEMENT STRATEGIES

### SELF-TESTING

Making Flashcards using **CORNELL NOTES**

**CUES** → Term/Question

**NOTES** → Definition/Answer

**Example using Cornell Notes**

Title: The Structure of a Cell

**CUES:**

what is the function of the nucleus?

what part of the cell stores genetic information?

what is the powerhouse of the cell?

**NOTES:**

**Cell Membrane**

- Description: outer layer of the cell, semi-permeable membrane that controls entry and exit of substances
- Function: protects the cell, provides structure, and regulates what goes in and out
- Analogy: acts like a security gate

**Nucleus**

- Description: control center of the cell, contains DNA
- Function: directs cell activities, stores genetic information
- Analogy: similar to a brain or command center

**Mitochondria**

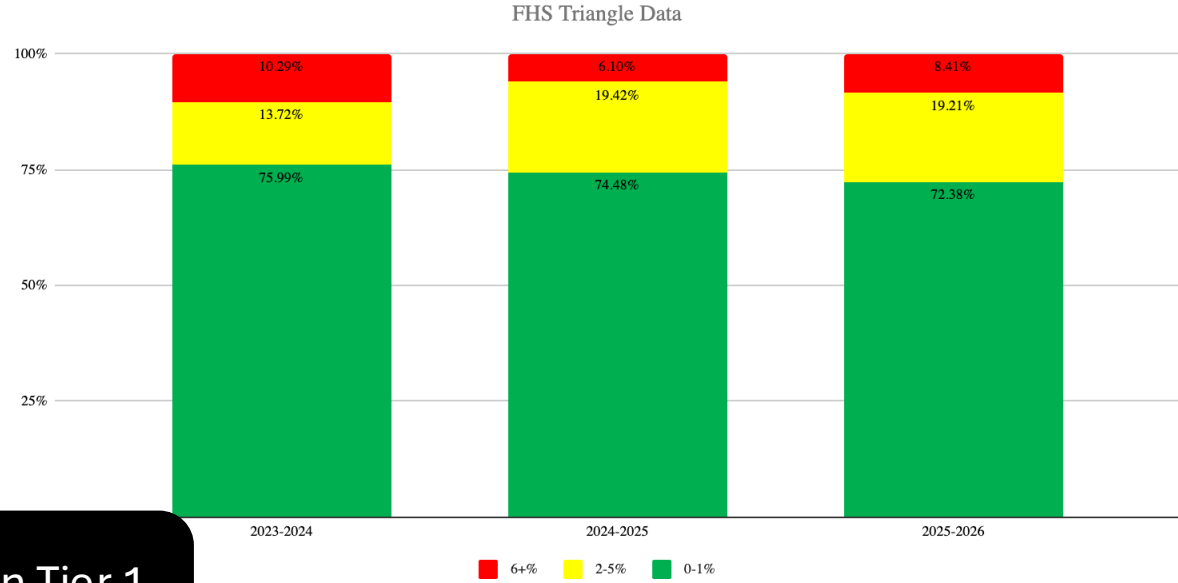
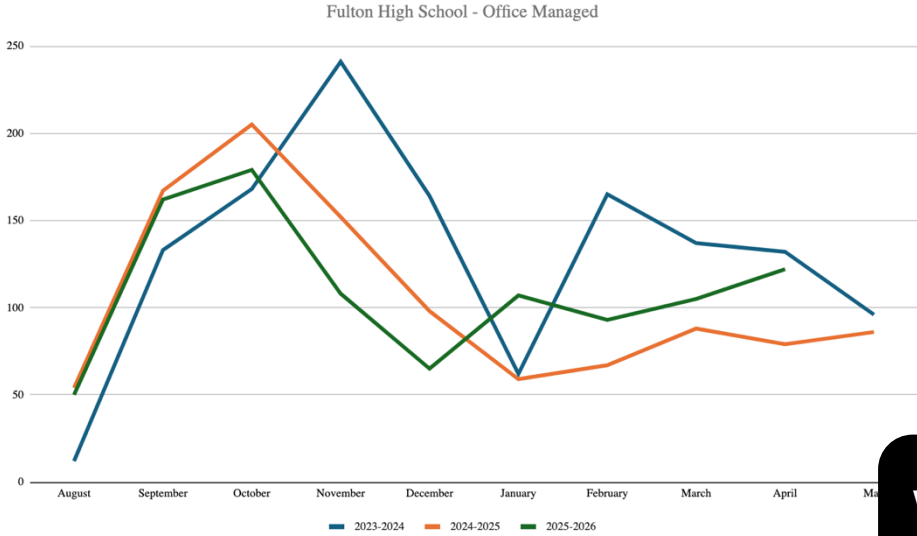
- Description: known as the "powerhouse" of the cell
- Function: converts food into energy (ATP) through cellular respiration
- Analogy: like a power plant providing energy to a cell

What is the "powerhouse" of the cell? Mitochondria

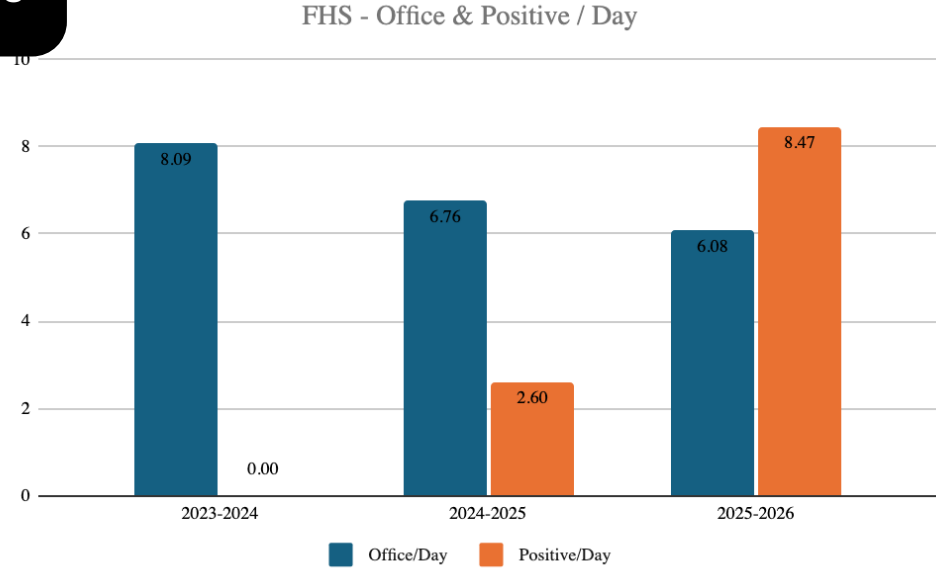
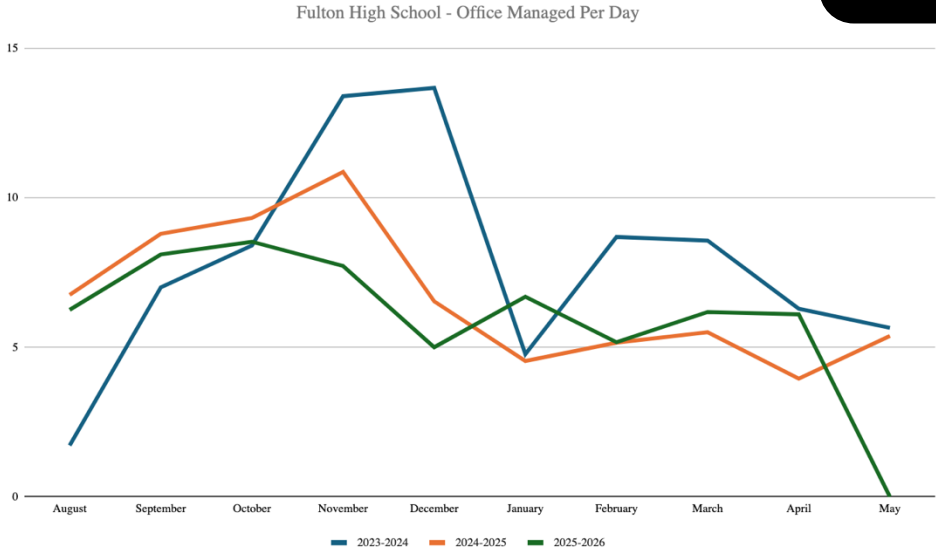
# Pilot Study #1



# Fulton High School Data



**We're growing in Tier 1, but there are still gaps**



# Fulton High School Data

## Teacher Checklist Building Report

Fulton High | October 2025 | Gender: All | All Grade

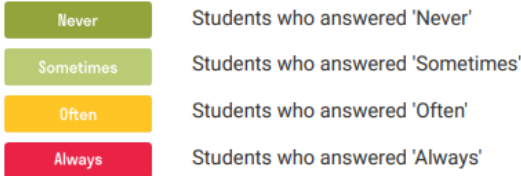


There are engagement issues, maybe skill issues?

Attention and Academic Issues	
Poor organization skills	24.23%
Poor academic performance	21.50%
Easily distracted	41.81%
Does not complete assignments	24.57%
Refuses to persist if a task is hard	21.50%
Has trouble concentrating	35.84%

## Student Survey Building Report

Fulton High | October 2025 | Gender: All | All Grade



Attention and Academic Issues	
31. I have trouble sitting still at school	38.6%   37.2%   14.5%   9.7%
32. I have trouble finishing my work	42.8%   43.4%   11.7%   2.1%
33. I have trouble paying attention	34.5%   42.8%   15.9%   6.9%
34. I DO NOT try hard to get good grades on my work	77.2%   16.6%   5.5%   0.7%
35. I DO NOT complete my school work on time	42.8%   42.8%   13.1%   1.4%

School Disengagement	
28. I DO NOT look forward to learning new things at school	35.2%   33.1%   21.4%   10.3%
29. I DO NOT enjoy coming to school	25.5%   33.1%   28.3%   13.1%
30. There is NOT an adult I can talk to at school if I need help	58.6%   24.1%   9.7%   7.6%

## Project CLASS for Fulton

- This intervention met a need - feasible, skill-based approach to teaching organization and study skills.
- Gave us an ability to play at a smaller level while exploring a more targeted, schoolwide approach (tier 2 vs tier 1).
- Aligned with what we knew – academics and behavior are intertwined.

# Participants

- Four ninth-grade students participated (pseudonyms):
  - Asher (504 accommodation)
  - Kevin (no IEP or 504)
  - Blake (IEP for SLD [reading])
  - Harrison (504 accommodation)

## Student Identification

Data Source	Examples	Non-Examples
<b>Types of Behavior</b>	<ul style="list-style-type: none"> <li>• Unorganized (e.g., forgets to turn in homework or turns in homework late)</li> <li>• Easily distracted/has trouble concentrating (gazing, doing irrelevant task)</li> <li>• Minor disruptions (e.g., talking out distracting others)</li> </ul>	<ul style="list-style-type: none"> <li>• Physical Aggression (e.g., fights)</li> <li>• Property Destruction</li> <li>• Major mental health concerns (e.g., depression, anxiety)</li> </ul>
<b>Existing School Data</b>	<ul style="list-style-type: none"> <li>• Received 2+ minor referrals</li> <li>• Overall attendance 85% or above</li> <li>• Failing no more than 2 classes</li> <li>• Tardy 2-4 times per week</li> <li>• Struggles to complete work/homework on time</li> </ul>	<ul style="list-style-type: none"> <li>• Received 3+ major referrals</li> <li>• Overall attendance less than 85%</li> <li>• Failing more than 2 classes</li> <li>• Tardy 5+ times per week</li> <li>• Completes very little or no work/homework</li> </ul>
<b>Classes</b>	<ul style="list-style-type: none"> <li>• Struggling in science and/or social studies (receiving less than B grade)</li> </ul>	<ul style="list-style-type: none"> <li>• Struggles in algebra, physical education classes.</li> </ul>

# Materials

- Student binders
  - Goal setting sheet
  - Strategies to stay engaged across environments
    - Individual work
    - Small group
    - Whole-class
- Self-monitoring/regulation sheet
- Examples of academic skills

Name: \_\_\_\_\_ Class: \_\_\_\_\_ Date: \_\_\_\_\_

Goal: \_\_\_\_\_

Cornell Note-Taking Steps		Done?	
1. Write the title (what this class was about) at the top of the paper.	Yes	No	
2. Write in key questions in the 'Cue' questions.	Yes	No	
3. Write the key information in the 'Notes' section.	Yes	No	
4. Write a summary of the key information from the lesson in the 'Summary' section.	Yes	No	
<b>Total:</b>	/	4	= %

Name: \_\_\_\_\_ Class: \_\_\_\_\_ Date: \_\_\_\_\_

Goal: \_\_\_\_\_

Goal: \_\_\_\_\_

Strategies for Staying Engaged		Frayer Model Steps		Done?	
1. Did you pay attention to the teacher or activity?		1. Write the key term (what was the class about)	Yes	No	
2. Did you follow teacher requests and/or directions?		2. Write the definition of the key term.	Yes	No	
3. Did I ask for help if needed?		3. Write the key characteristics of the term.	Yes	No	
4. Did I ask and/or answer questions if needed?		4. Write or illustrate examples of the key term.	Yes	No	
5. Did I collaborate with peers on tasks/activities?		5. Write or illustrate non-examples of the key term.	Yes	No	
<b>Total:</b>	/	5	=	%	

Goal: \_\_\_\_\_

Strategies for Staying Engaged		Done?	
1. Did you pay attention to the teacher or activity?	Yes	No	
2. Did you follow teacher requests and/or directions?	Yes	No	
3. Did I ask for help if needed?	Yes	No	N/A
4. Did I ask and/or answer questions if needed?	Yes	No	N/A
5. Did I collaborate with peers on tasks/activities?	Yes	No	N/A
6. Did I create my Frayer Model notes?	Yes	No	
7. Did I ask the teacher how I did at the end of class?	Yes	No	
<b>Total:</b>	/	=	%



# Procedures

## LESSON: CONCEPT MAPPING

Estimated time: 30-45 minutes

**OVERVIEW**

This lesson focuses on student-created concept maps. A concept map is a graphic organizer that helps students visualize and structure their knowledge by linking key concept words, or short phrases to form meaningful connections. Learning with a concept map can involve creating a concept map, studying existing teacher-created concept maps, or completing a fill-in-the-blank concept map.

The process of creating a concept map fosters meaningful learning because learners must actively select relevant information to create nodes to represent key concepts (e.g., Electricity,  $\Delta$ temp., Energy), and integrate new information with existing knowledge.

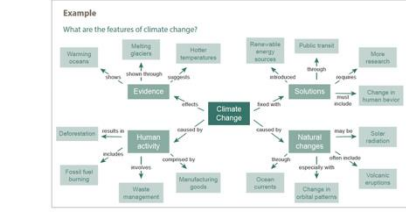
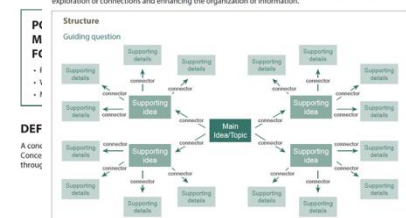
**Why Concept Mapping is Helpful**

Concept mapping is a strategy for organizing and representing information. For example:

- Students can create concept maps to summarize key ideas and their relationships to each other while reading from a passage.
- A student-created concept map can be used as an informal assessment to gauge students' understanding of the relationships between key concepts presented in the material.

**Spider Model**

A spider map features the main concept at the center, with directional arrows extending in various directions to represent related ideas and subtopics. This layout resembles a spider's web, facilitating the exploration of connections and enhancing the organization of information.



## LESSON: FRAYER MODEL

Estimated time: 30-45 minutes

**OVERVIEW**

This lesson focuses on student-created Frayer Models. The Frayer Model is a graphic organizer designed to enhance students' understanding of vocabulary words. The Frayer Model helps students expand upon new terms or concepts by learning the definitions, characteristics, examples, and non-examples of the term.

The process of creating the Frayer Model promotes meaningful learning because learners must actively select relevant information to build a comprehensive understanding of the concept (e.g., genetics) through definitions (e.g., study of heredity), characteristics (e.g., DNA, genes), examples (e.g., inheriting eye color), and non-examples (e.g., behavior, physical injuries).

**Why the Frayer Model is Helpful**

The Frayer Model is an effective tool for clarifying the meaning of vocabulary words encountered during instruction. For example:

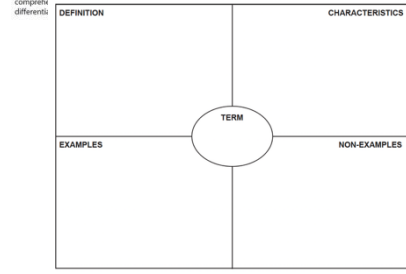
- Students can create Frayer Models to deepen their understanding of new words introduced in text passages.
- A student-created Frayer Model can be used as an informal assessment to gauge students' understanding of the relationships between key concepts presented in the material.

**FRAYER MODEL WORKSHEET**

**Directions:**  
Select one term/concept below. Then, define the term in the Definition box. Next, identify characteristics of the term/concept. Last, identify examples and non-examples of the term/concept. Be sure to review your completed model.

**Options for Terms/Concepts:**

- Human migration
- Civil Rights
- Photosynthesis
- Conflict resolution
- Prioritizing



## LESSON: NOTE-TAKING

Estimated time: 30-45 minutes

**OVERVIEW**

This lesson focuses on note-taking. Note-taking is a process of recording important information presented during lectures, through online materials, or independent reading activities. It is important skill for identifying, understanding, and retaining new information. Note-taking involves identifying key points, summarizing information, organizing notes with headers and structures.

**Why Note-taking is Helpful**

Learning how taking good notes provides learners with a structured system for recording information. This activity combines comprehension of new information with the production of materials useful for retaining and reviewing the information at a later point. Note-taking helps to:

- Enhance student learning through active listening and engagement.
- Improve comprehension and understanding of new material.
- Increases motivation and interest in new topics.
- Improves academic performance (higher grades, scores on tests).
- Improves student well-being and relationships with adults and peers.

**After Class**

Write key concepts or questions in the left margin under "Cues"

**MATERIALS FOR LESSON**

- Writing utensil
- Paper

**OPERATION**

Note-taking is defined as educational material organizing content

**TITLE: THE LIFE PROGRESSION OF FROGS**

QUESTIONS	NOTES
<b>What are the stages of a frog's life cycle?</b>	<p><b>Egg stage</b></p> <ul style="list-style-type: none"> <li>- Frogs lay eggs in water</li> <li>- Eggs hatch into tadpoles</li> <li>- Tadpoles now have legs and lungs</li> <li>- Tadpoles begin to shrink</li> <li>- Start breathing air and can leave water for a brief time</li> <li>- Eat small insects</li> </ul> <p><b>Adult frog stage</b></p> <ul style="list-style-type: none"> <li>- Fully developed frog</li> <li>- Can live fully on land and in water</li> <li>- Thrive on a moist environment</li> <li>- Carnivorous diet - eat insects, spiders, and other small invertebrates</li> <li>- Return to water to lay eggs</li> <li>- Complete the life cycle</li> </ul>
<b>How does a tadpole differ from an adult frog?</b>	<p><b>Tadpole stage</b></p> <ul style="list-style-type: none"> <li>- Eggs hatch into tadpoles</li> <li>- Have tails, gills, and live underwater</li> <li>- Backbones get shorter</li> <li>- Legs start forming as they get older</li> </ul> <p><b>Froglet stage</b></p> <ul style="list-style-type: none"> <li>- Tadpoles now have legs and lungs</li> <li>- Tail begins to shrink</li> <li>- Start breathing air and can leave water for a brief time</li> <li>- Eat small insects</li> </ul>
<b>What is the difference of a froglet and tadpole?</b>	<p><b>Froglet stage</b></p> <ul style="list-style-type: none"> <li>- Tadpoles now have legs and lungs</li> <li>- Tail begins to shrink</li> <li>- Start breathing air and can leave water for a brief time</li> <li>- Eat small insects</li> </ul>
<b>How does a frog's diet change over time?</b>	<ul style="list-style-type: none"> <li>- Fully developed frog</li> <li>- Can live fully on land and in water</li> <li>- Thrive on a moist environment</li> <li>- Carnivorous diet - eat insects, spiders, and other small invertebrates</li> <li>- Return to water to lay eggs</li> <li>- Complete the life cycle</li> </ul>

**SUMMARY**

The life progression of a frog includes four main stages: egg, tadpole, froglet, and adult frog. Frogs start as eggs in water, hatch into tadpoles, and gradually develop legs and lungs to become froglets. Eventually, they grow into adult frogs, capable of living on land and reproducing to continue the life cycle. Each stage has adaptations that allow the frog to survive in its changing environment.

## LESSON: STAYING ENGAGED

Estimated time: 15-20 minutes

**OVERVIEW**

Staying engaged means staying focused and actively participating during class activities. It may involve paying attention, asking and answering questions, following teacher directions or requests, and taking notes.

**Why Stay Engaged?**

When students are engaged, they are more likely to experience academic success and have positive relationships with teachers and students. Staying engaged helps to:

- Improve comprehension and understanding of new material.
- Increases motivation and interest in new topics.
- Improves academic performance (higher grades, scores on tests).
- Improves student well-being and relationships with adults and peers.

**STAYING ENGAGED WORKSHEET**

TYPE OF INSTRUCTION	EXAMPLES	BARRIERS	SOLUTIONS
WHOLE CLASS INSTRUCTION			
SMALL WORK GROUP			
INDEPENDENT			

**Operational Def:** Goal setting is a strategy to identify behavior and performance. Goal motivation, and self-regulation

**Example:** For the next three weeks, Language class.

**Non-Example:** I will not be tardy in any c.

## LESSON: GOAL SETTING

Estimated time: 15-20 minutes

**OVERVIEW**

Goal setting is the process of identifying specific, measurable, and time-bound objectives that guide efforts and actions toward achieving desired outcomes. It involves clarifying what one wants to accomplish, setting milestones to track progress, and establishing a plan of action.

When a goal is specific and measurable, it is more likely to be achieved.

Goal setting helps to:

- Build a roadmap to achieve long-term goals and prioritize what's important.
- Identify specific goals and track their own progress.

**MATERIALS FOR LESSON**

- Pencils
- Paper
- Laptop/Chromebook

**DIFFERENT TYPES OF GOALS**

There are different types of goals students can create. These include short-term goals (achievable in weeks), mid-range goals (achievable in months), and long-term goals (achievable in years).

**Short-Term Goals**

Short-term goals are designed to be achievable within a few weeks. These goals provide students with quick feedback on their progress and serve as steppingstones for larger, long-term goals.

**Example:** For the next six weeks of the semester, I will meet with my Algebra I teacher once a week to confirm that I have completed all homework assignments.

**Non-Example:** I will improve my grade in my Algebra I class.

**Mid-Range Goals**

Mid-range goals are designed to be achievable within months. These goals act as steppingstones between short-term goals and long-term goals.

**Example:** By the end of the semester, I will improve my overall grade in my Algebra I class from a D to a B.

**Non-Example:** By the end of the semester, I will get an A in my Algebra I class because I will get 95% or better on every quiz and test in the class.

**Long-Term Goals**

Long-term goals are typically designed to be achieved over a year or longer. These goals are often broad in scope and require sustained effort and dedication over time.

**Example:** For the end of the school year, I will have passed on my classes with a B or better grade and be on track to graduation.

**Non-Example:** I will work harder on communicating and building a positive relationship with my Algebra I.

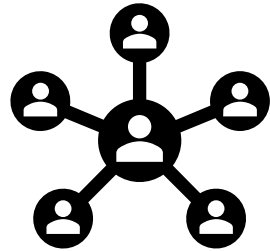
# Procedures



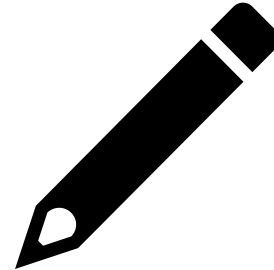
Instruction



“I Do”



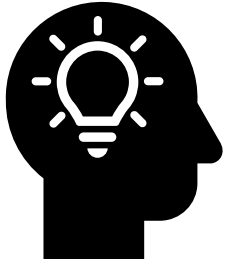
“We Do”



“You Do”



Checks for  
Understanding



Apply

# Procedures

Name: \_\_\_\_\_ Class: \_\_\_\_\_ Date: \_\_\_\_\_

Goal: \_\_\_\_\_

Cornell Note-Taking Steps	Done?	
1. Write the title (what this class was about) at the top of the paper.	Yes	No
2. Write in key questions in the 'Cue' questions.	Yes	No
3. Write the key information in the 'Notes' section.	Yes	No
4. Write a summary of the key information from the lesson in the 'Summary' section.	Yes	No
<b>Total:</b> /		

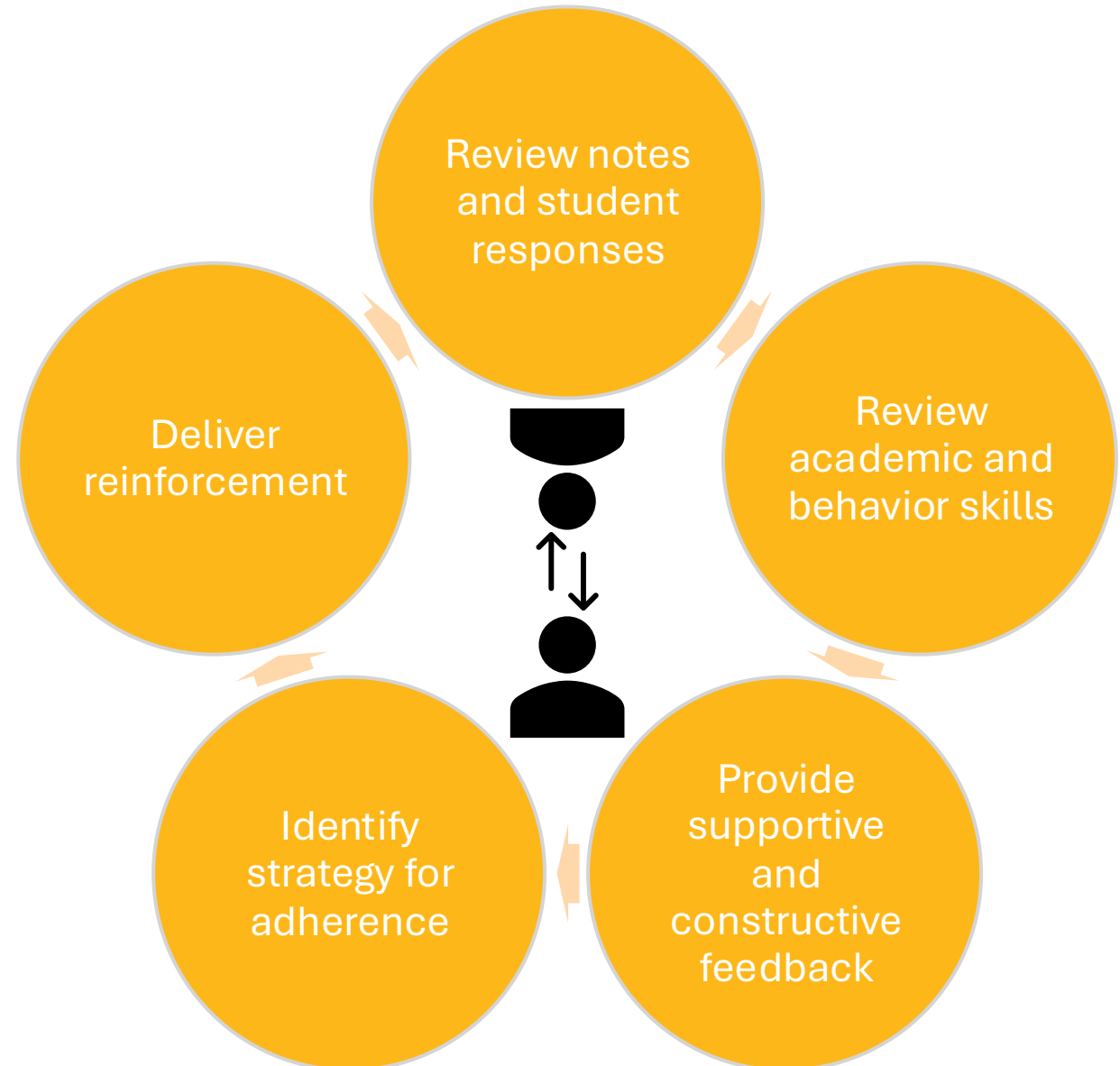
Name: \_\_\_\_\_ Class: \_\_\_\_\_ Date: \_\_\_\_\_

Goal: \_\_\_\_\_

Strategies for	Frayer Model Steps	Done?	
1. Did you pay attention to the t	1. Write the key term (what was the class about)	Yes	No
2. Did you follow teacher reque	2. Write the definition of the key term.	Yes	No
3. Did I ask for help if needed?	3. Write the key characteristics of the term.	Yes	No
4. Did I ask and/or answer quest	4. Write or illustrate examples of the key term.	Yes	No
5. Did I collaborate with peers o	5. Write or illustrate non-examples of the key term.	Yes	No
6. Did I create my Cornell notes	<b>Total:</b> / 5 = %		
7. Did I ask the teacher how I di			

Goal: \_\_\_\_\_

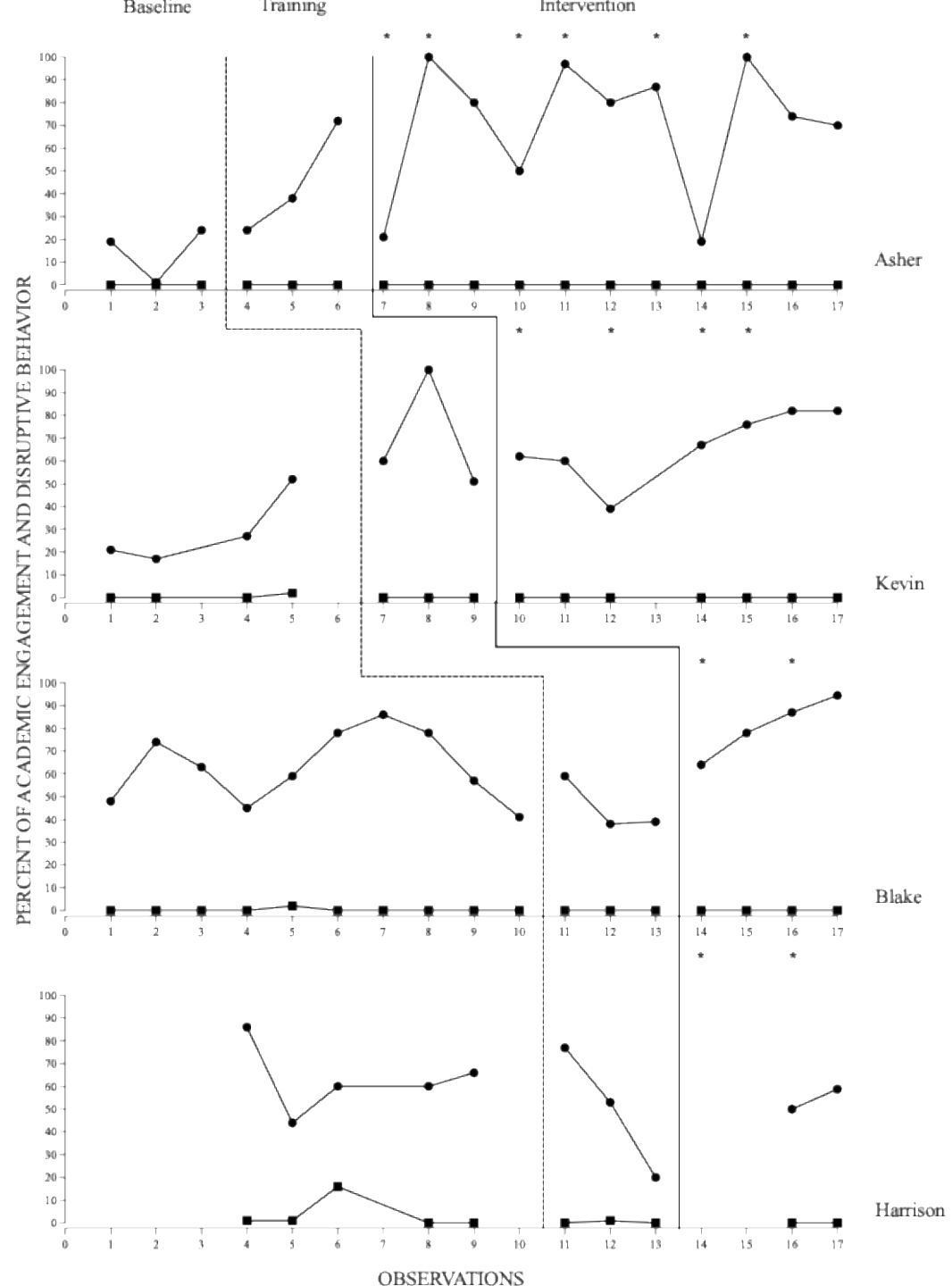
Strategies for Staying Engaged	Done?		
1. Did you pay attention to the teacher or activity?	Yes	No	
2. Did you follow teacher requests and/or directions?	Yes	No	
3. Did I ask for help if needed?	Yes	No	N/A
4. Did I ask and/or answer questions if needed?	Yes	No	N/A
5. Did I collaborate with peers on tasks/activities?	Yes	No	N/A
6. Did I create my Frayer Model notes?	Yes	No	
7. Did I ask the teacher how I did at the end of class?	Yes	No	
<b>Total:</b> / = %			



## Implementation from Fulton's Perspective

- Coaches (external) observed students in Science or Social Studies classes (5<sup>th</sup> or 7<sup>th</sup> hour) and collected student engagement data.
- Coaches, based on observations, taught and reinforced strategies to increase engagement.
  - Coaching session took place during 6<sup>th</sup> period seminar (Monday, Wednesday, or Friday)
- Coaches gathered follow-up data (progress monitoring)
- Students met one-on-one with coaches to receive individualized feedback and support.

# Results



## Results

- Teacher Report of Student Engagement (1 [strongly disagree] to 5 [strongly agree]):
  - Asher: 2.2 (Pre) to 3.3 (Post)
  - Kevin: 2.2 to 3.3
  - Blake: Stayed consistent at 3.2
  - Harrison: 2.2 to 2.3
- Student Report of Academic Engagement:
  - Small increase in perceived engagement from all students except Kevin (slight decrease)
- Student & Teacher Reports of Program Satisfaction (1 [strongly disagree] to 6 [strongly agree])
  - Students:  $M = 4.93$  (range: 4.40–5.60)
  - Teachers:  $M = 5.44$  (range: 5.31–5.56)

## Conclusions

- Moderate effect on academic engagement
  - Due to low levels of disruptive behavior, we could not evaluate if the intervention was effective
- May be an efficient and effective way to support ninth-grade students
- Tier 2 teams may want to identify students early
- Training and coaching can be delivered within a relatively brief timeframe
- Preliminary support for integrated Tier 2 intervention for students with or without disabilities

## Social Validity from Fulton

- Students were highly receptive to the intervention; several expressed interest in continued participation.
- The intervention was easy to implement with the current school schedule (students being pulled from seminar on designated days).
- Student and teacher reports indicated increased engagement and strong overall intervention support.
- Unsure of feasibility of capacity to support individualized coaching at the Tier 2 intervention level.

# Pilot Study #2

## Differences from Pilot Study #1 to Pilot Study #2

- Included 4 students (PS1) to 6 students (PS2)
- Taught 2 academic note-taking strategies (PS1) to 3 academic note-taking strategies (PS2)
- Taught/coached in groups of 2 (PS2) students vs 1 student (PS1)
- Taught students to recruit feedback and provided teachers with a strategy to provide feedback (PS2)

# Fulton Student Identification

- Gated Identification Process
  - Spring EIS data (8<sup>th</sup> grade year) – concern areas of attention, organization, academics & teacher recommendations
  - Grades – A/B in Science or Social Studies were excluded
  - Behavioral data – is this an academic skill deficit or a behavioral deficit?
  - Teacher input

# Participants

- Six, ninth-grade students (pseudonyms):
  - Nolan (Dyad 1)
  - Jack (Dyad 1)
  - Quinn (Dyad 2)
  - Max (Dyad 2)
  - Mason (Dyad 3)
  - Everett (Dyad 3)

**Student Identification**

Data Source	Examples	Non-Examples
<b>Types of Behavior</b>	<ul style="list-style-type: none"> <li>• Unorganized (e.g., forgets to turn in homework or turns in homework late)</li> <li>• Easily distracted/has trouble concentrating (gazing, doing irrelevant task)</li> <li>• Minor disruptions (e.g., talking out distracting others)</li> </ul>	<ul style="list-style-type: none"> <li>• Physical Aggression (e.g., fights)</li> <li>• Property Destruction</li> <li>• Major mental health concerns (e.g., depression, anxiety)</li> </ul>
<b>Existing School Data</b>	<ul style="list-style-type: none"> <li>• Received 2+ minor referrals</li> <li>• Overall attendance 85% or above</li> <li>• Failing no more than 2 classes</li> <li>• Tardy 2-4 times per week</li> <li>• Struggles to complete work/homework on time</li> </ul>	<ul style="list-style-type: none"> <li>• Received 3+ major referrals</li> <li>• Overall attendance less than 85%</li> <li>• Failing more than 2 classes</li> <li>• Tardy 5+ times per week</li> <li>• Completes very little or no work/homework</li> </ul>
<b>Classes</b>	<ul style="list-style-type: none"> <li>• Struggling in science and/or social studies (receiving less than B grade)</li> </ul>	<ul style="list-style-type: none"> <li>• Struggles in algebra, physical education classes.</li> </ul>

# Materials

Name: \_\_\_\_\_ Class: \_\_\_\_\_ Date: \_\_\_\_\_

Goal: \_\_\_\_\_

Strategies for Staying Engaged	Student:		Teacher:		
1. Did I stay engaged?	Yes	No	Yes	No	
2. Did I use a note-taking strategy?	Yes	No	Yes	No	
3. Did I ask the teacher how I did after class?	Yes	No	Yes	No	
Teacher rating of student engagement: 1 = Needs work; 5 = Exceptional	1	2	3	4	5
Teacher Signature:					
Teacher optional feedback:					

Name: \_\_\_\_\_ Class: \_\_\_\_\_ Date: \_\_\_\_\_

Goal: \_\_\_\_\_

Strategies for Staying Engaged	Student:		Teacher:		
1. Did I stay engaged?	Yes	No	Yes	No	
2. Did I use a note-taking strategy?	Yes	No	Yes	No	
3. Did I ask the teacher how I did after class?	Yes	No	Yes	No	
Teacher rating of student engagement: 1 = Needs work; 5 = Exceptional	1	2	3	4	5
Teacher Signature:					
Teacher optional feedback:					

Name: \_\_\_\_\_ Class: \_\_\_\_\_ Date: \_\_\_\_\_

Goal: \_\_\_\_\_

Strategies for Staying Engaged	Student:		Teacher:		
1. Did I stay engaged?	Yes	No	Yes	No	
2. Did I use a note-taking strategy?	Yes	No	Yes	No	
3. Did I ask the teacher how I did after class?	Yes	No	Yes	No	
Teacher rating of student engagement: 1 = Needs work; 5 = Exceptional	1	2	3	4	5
Teacher Signature:					
Teacher optional feedback:					

Goal: \_\_\_\_\_

Cornell Note-Taking Steps	Done?	
1. Write the title (what this class was about) at the top of the paper.	Yes	No
2. Write in key questions in the 'Cue' questions.	Yes	No
3. Write the key information in the 'Notes' section.	Yes	No
4. Write a summary of the key information from the lesson in the 'Summary' section.	Yes	No
<b>Total:</b>	/	4 = %

Goal: \_\_\_\_\_

Concept Mapping Steps	Done?	
1. Write the guiding question.	Yes	No
2. Write in the relationships between the key concepts.	Yes	No
3. Write directional arrows between the concepts.	Yes	No
4. Write the relationships between the concepts on the directional arrows.	Yes	No
<b>Total:</b>	/	4 = %

Goal: \_\_\_\_\_

Fray Model Steps	Done?	
1. Write the key term (what was the class about)	Yes	No
2. Write the definition of the key term.	Yes	No
3. Write the key characteristics of the term.	Yes	No
4. Write or illustrate examples of the key term.	Yes	No
5. Write or illustrate non-examples of the key term.	Yes	No
<b>Total:</b>	/	5 = %

# Procedures

Name: \_\_\_\_\_ Class: \_\_\_\_\_ Date: \_\_\_\_\_

Goal: \_\_\_\_\_

Cornell Note-Taking Steps	Done?	
1. Write the title (what this class was about) at the top of the paper.	Yes	No

Name: \_\_\_\_\_ Class: \_\_\_\_\_ Date: \_\_\_\_\_

3. Write the key information in the 'N'  
4. Write a summary of the key inform  
'Summary' section.

Goal: \_\_\_\_\_

Total: / 4

Frayer Model Steps	Done?	
1. Write the key term (what was the class about)	Yes	No
2. Write the definition of the key term.	Yes	No

Name: \_\_\_\_\_ Class: \_\_\_\_\_ Date: \_\_\_\_\_

Goal: \_\_\_\_\_

Strategies for Stayi
1. Did you pay attention to the teacher
2. Did you follow teacher requests and
3. Did I ask for help if needed?

3. Write the key characteris  
4. Write or illustrate example  
5. Write or illustrate non-exa

Total: /

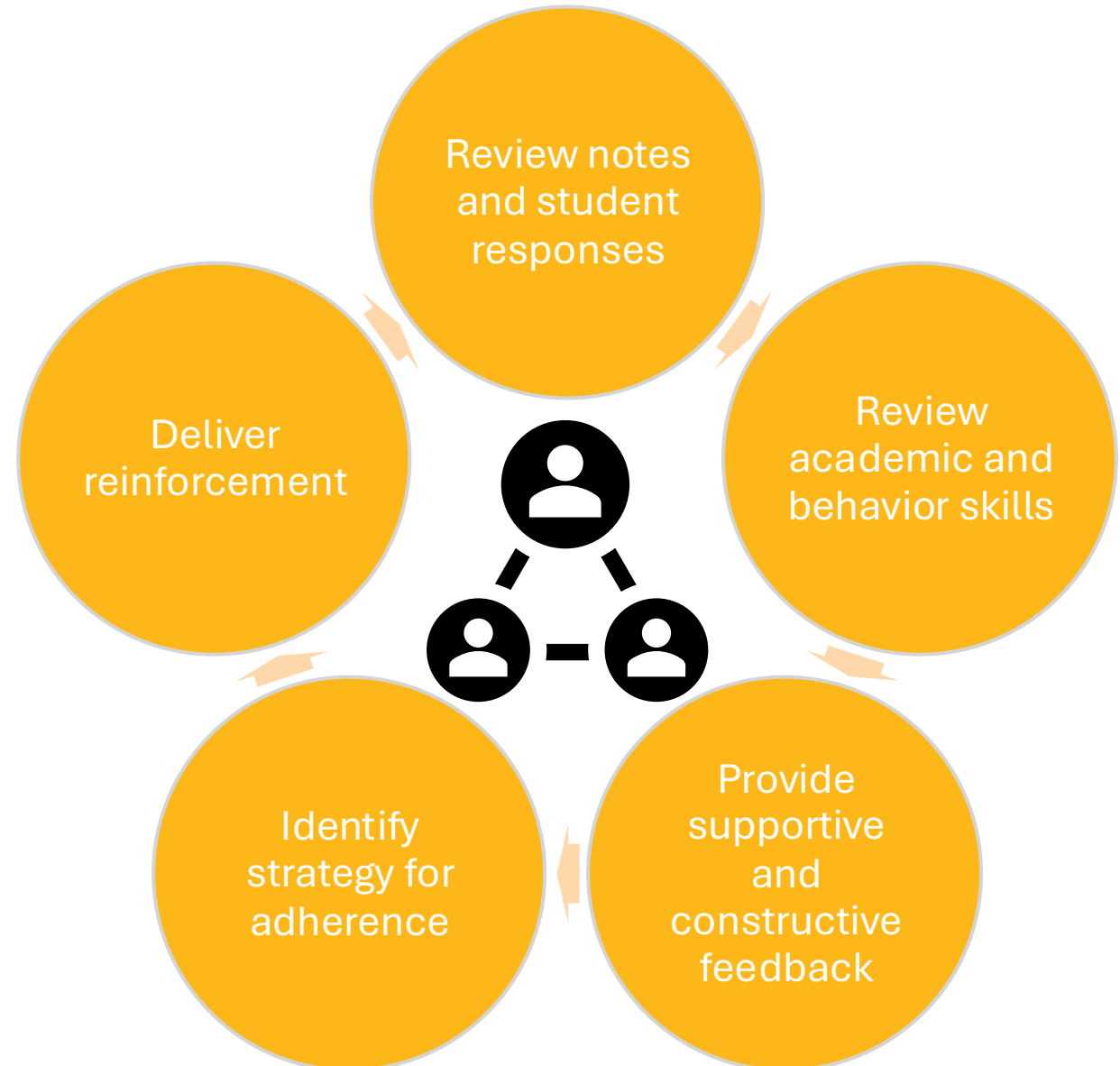
Goal: \_\_\_\_\_

Strategies
1. Did you pay attention to th
2. Did you follow teacher req
3. Did I ask for help if needed
4. Did I ask and/or answer qu
5. Did I collaborate with peer
6. Did I create my Frayer Me
7. Did I ask the teacher how I

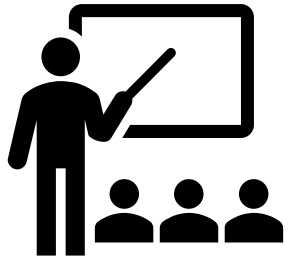
1. Did I stay engaged?  
2. Did I use a note-taking strategy?  
3. Did I ask the teacher how I did after class?  
Teacher rating of student engagement:  
1 = Needs work; 5 = Exceptional  
Teacher Signature:  
Teacher optional feedback:

Goal: \_\_\_\_\_

Concept Mapping Steps	Done?	
1. Write the guiding question.	Yes	No
2. Write in the relationships between the key concepts.	Yes	No
3. Write directional arrows between the concepts.	Yes	No
4. Write the relationships between the concepts on the directional arrows.	Yes	No
Total: / 4 = %		



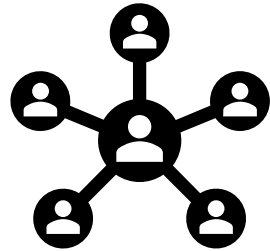
# Procedures



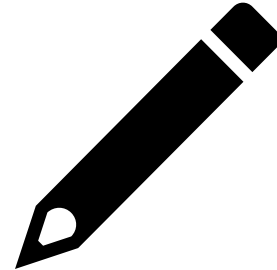
Instruction



“I Do”



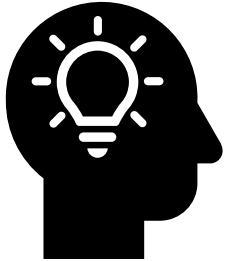
“We Do”



“You Do”



Checks for  
Understanding

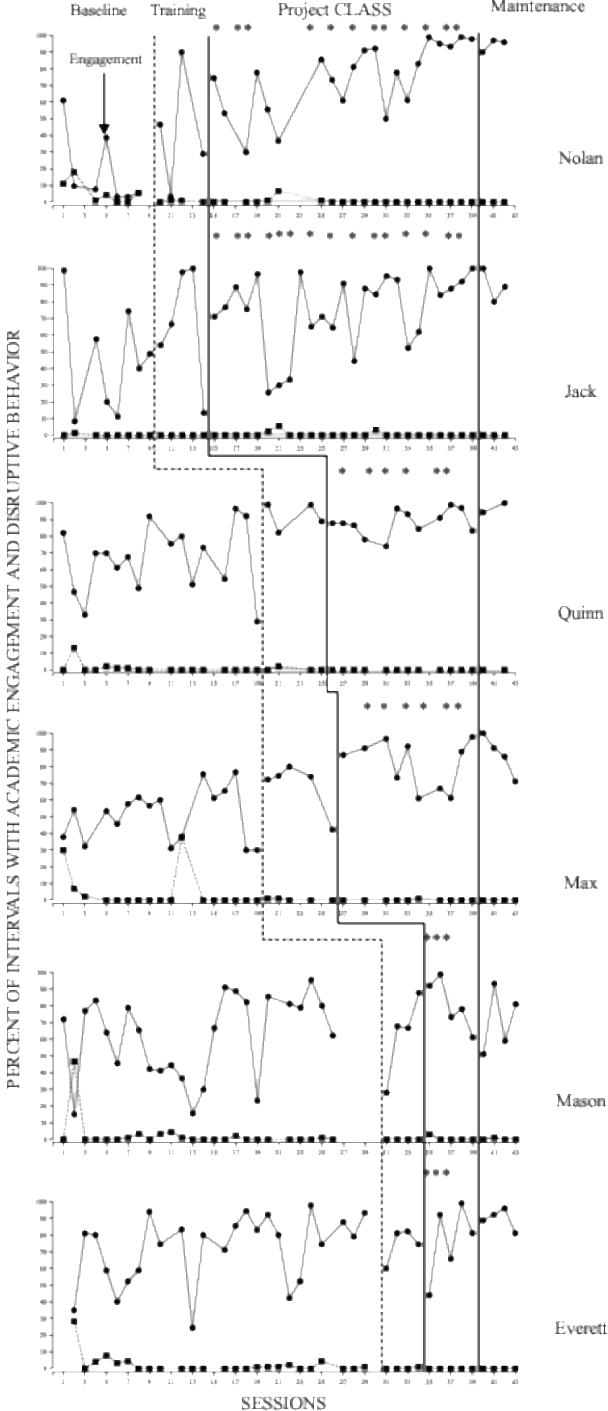


Apply

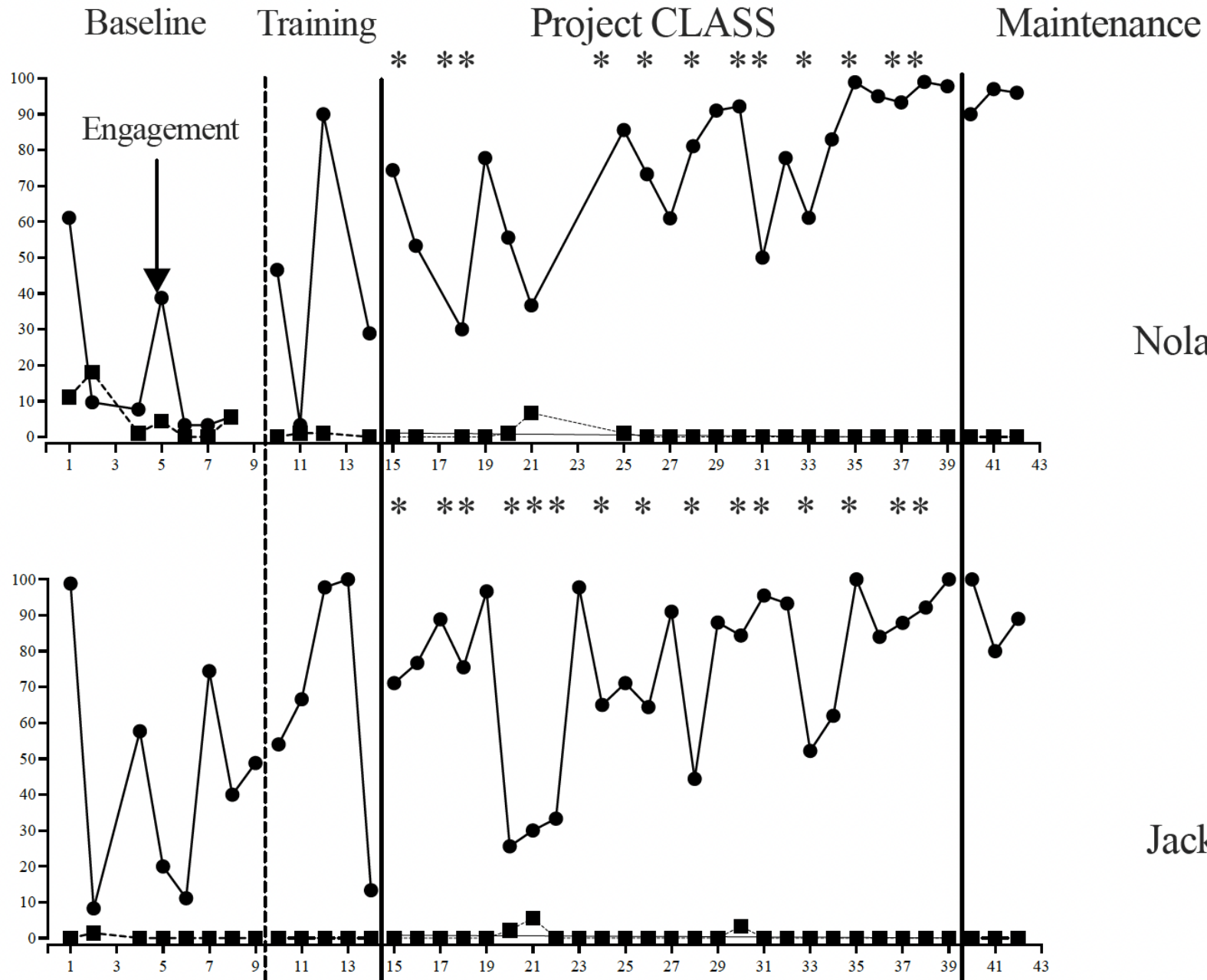
## Implementation from Fulton's Perspective

- Very similar to Study 1 (observation, teaching during seminar, follow-up observations); researcher-led.
- Teaching and coaching occurred as a triad (2 students, 1 researcher) instead of one student, one researcher.
- Students were taught to cue feedback; teachers were provided with a strategy to provide feedback.

# Results



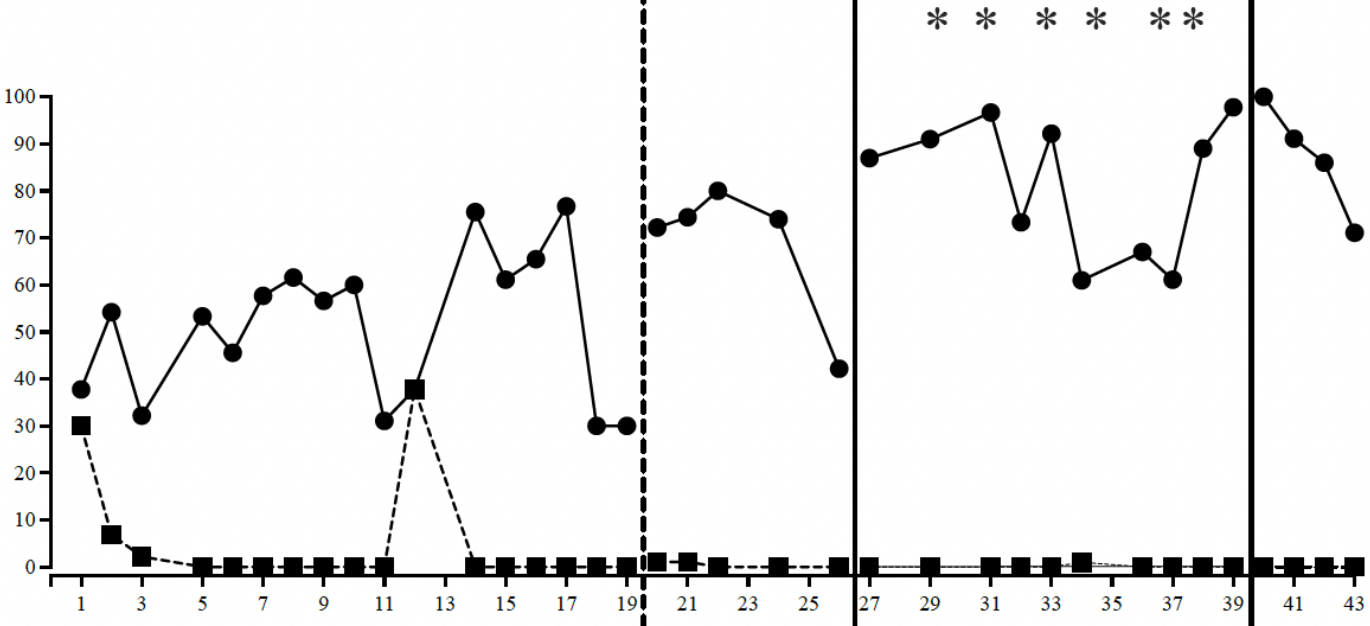
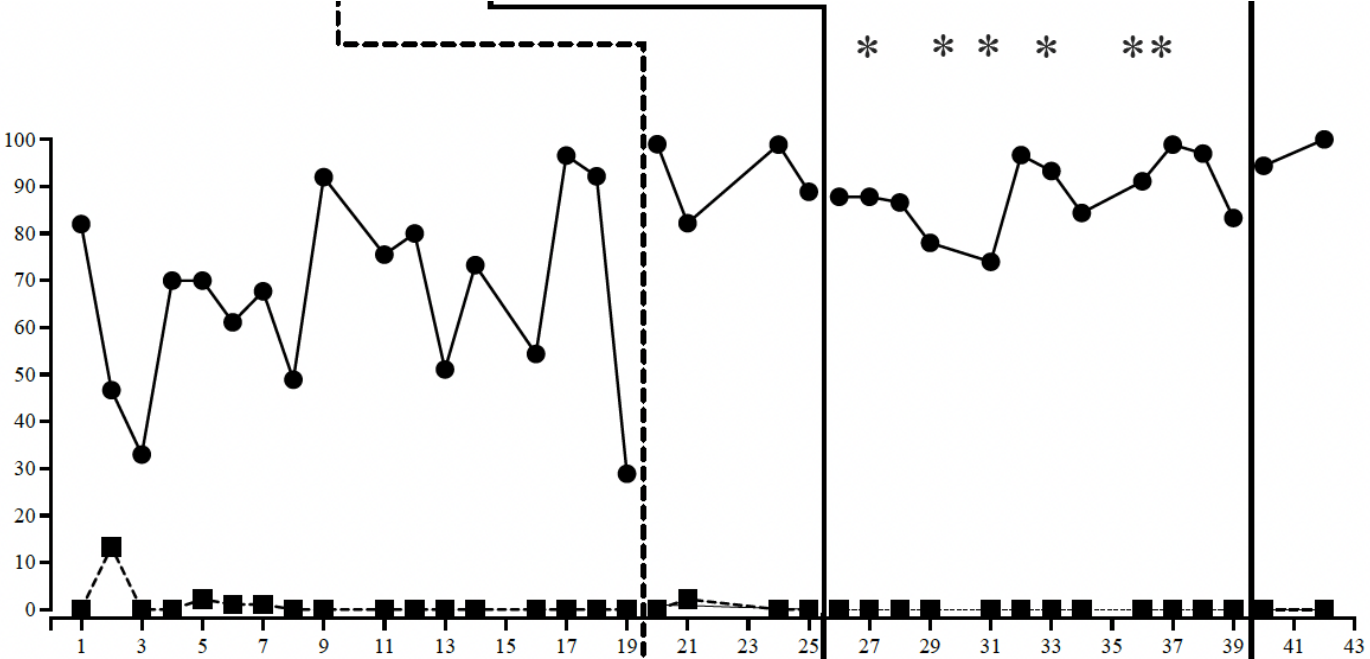
# Results – Dyad 1



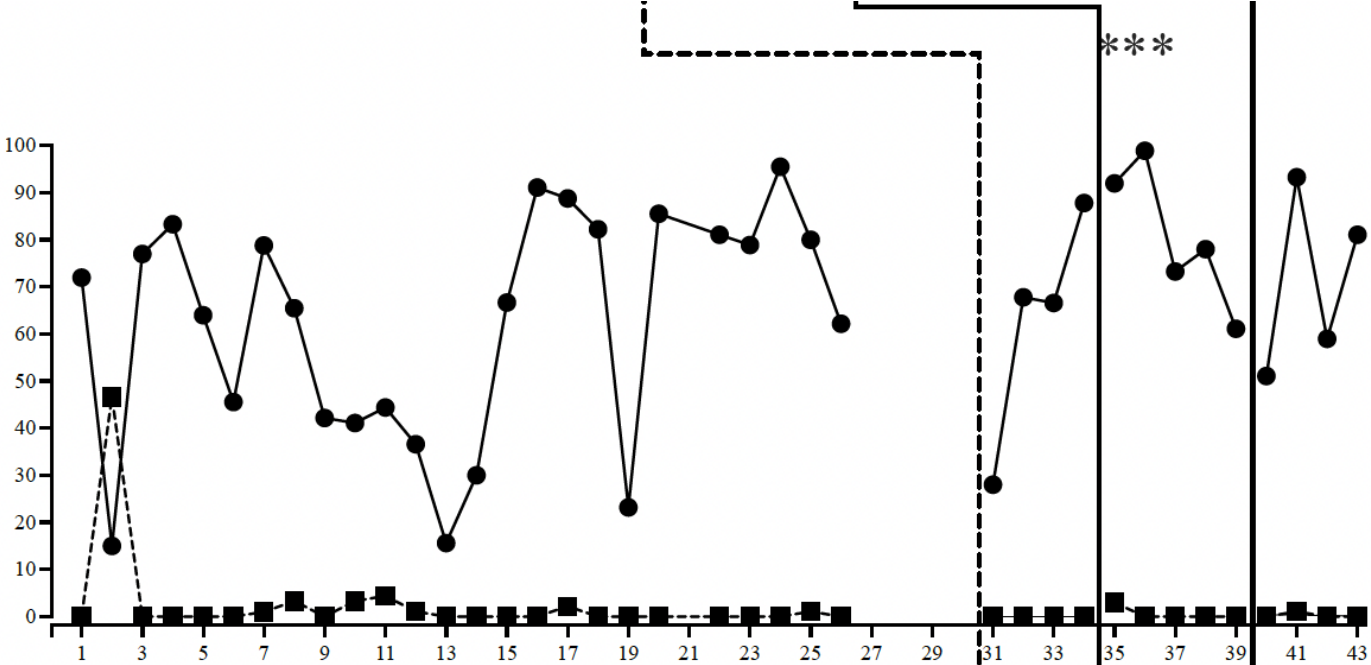
Nolan

Jack

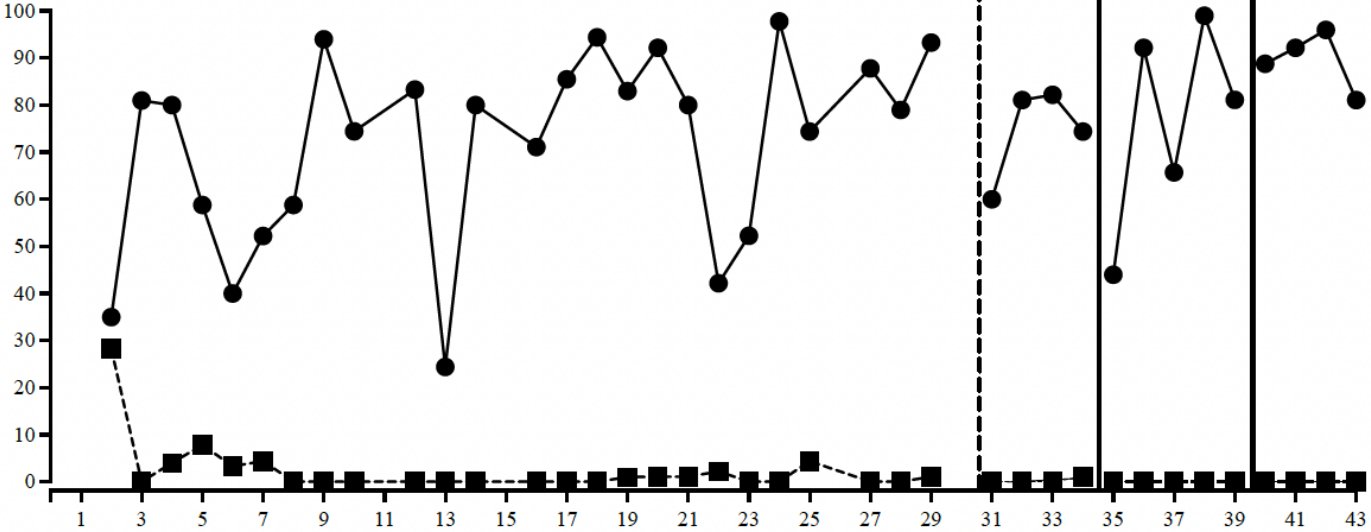
# Results – Dyad 2



# Results – Dyad 3



Mason



Everett

## Results

- Teacher Report of Student Academic Engagement (Pre-Post; 1 [strongly disagree] to 5 [strongly agree]):
  - Nolan: 3.40 to 3.60
  - Jack: 4.00 to 3.90
  - Quinn: 3.30 to 4.40
  - Max: 4.00 to 3.80
  - Mason: 3.50 to 4.50
  - Everett: 3.70 to 3.40
- Teacher and Student Satisfaction (1 [strongly disagree] to 6 [strongly agree]):
  - Students:  $M = 4.60$  (range: 3.93–4.93)
  - Teachers:  $M = 5.02$  (range: 4.81–5.38)

## Conclusions

- Increased academic engagement across students
  - All students demonstrated higher engagement during intervention compared to baseline
    - Gains ranged from **+5%** to **+56%**
  - More participation in the program resulted in higher levels of academic engagement
- Promising teacher-reported outcomes
- High social validity and acceptability
- Small-group, Tier 2 approach shows promise
  - Coaching and feedback may be critical for improving outcomes

## Social Validity from Fulton

- Parents were appreciative of the support for their child's academic needs.
- Students expressed enjoyment at being part of the study and responded positively to the additional support.
- Seminar was very helpful in providing the deployment structure that can be leveraged for full-scale implementation.
- Small group structure allowed for stronger relationships, targeted support, and increased engagement.
- Teacher buy-in was strong. The involved teachers became some of the biggest advocates for the intervention.

# Overall Conclusions

## What's Next?

- Implement CLASS as a Tier 2 small-group intervention
  - Embed within existing Tier 2 systems (e.g., 6–8 students)
- Obtain feedback on CLASS content and existing supports
  - Focus groups with students
  - Focus group with ninth-grade educators and administrators
- Refine intervention based on pilot data
  - Strengthen alignment between student skill use and classroom expectations
  - Continue to enhance feedback and engagement supports
- Evaluate scalability and sustainability
  - Examine long-term impact on academic engagement and course performance

# Fulton Recommendations

- Start small
- Use existing Tier 2 systems
- Prioritize scheduling early
- Integrate with existing curriculum

## Fulton – What’s Next?

- Continuing to partner with MU (always)
  - Bridge backward to Tier 1 (Freshman Success)
- As a district – standardizing Tier 2 systems
  - Student Support Teaming Processes
  - Identification Methods
  - Standardized Core Interventions
  - Process for supporting exploration & adoption of additional interventions
- At the high school
  - Expansion
  - Transitioning from external to internal

**Questions?**

## Contact Us!

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