

A Multi-Tiered System of Supports

Intensive Intervention Day 3

flmtss-day3.wikispaces.com

Please go ahead and get online and go to today's wiki

Norms

- Value everyone's input/expertise/strengths
- Remain Positive
- Be Learning Focused
- Adhere to time-ordered agenda
- Use Parking Lot

Getting Ready

- Getting online
- Puffin Browser
- Accessing the Wiki
 - flmtss-day3.wikispaces.com
- Testing web-based tools – Vacations
- Review Wiki and handouts

Goals & Objectives

- gain awareness of a *continuum of supports that address* high probability and high intensity *barriers to* student *engagement* and learning
- *problem-solve barriers to* intensive intervention *design* and implementation
- increase *recognition of the critical infrastructure* necessary to support Tier 3 intervention design and implementation

Goals & Objectives

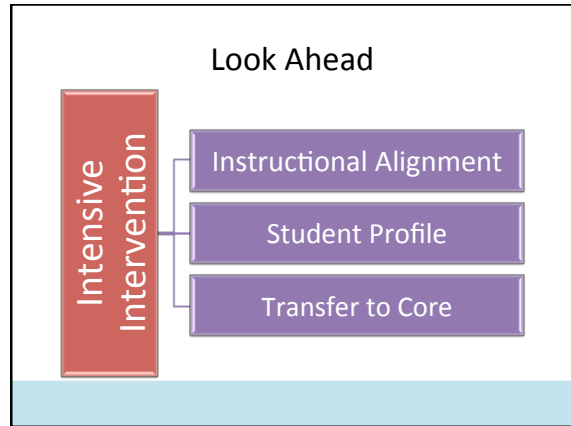
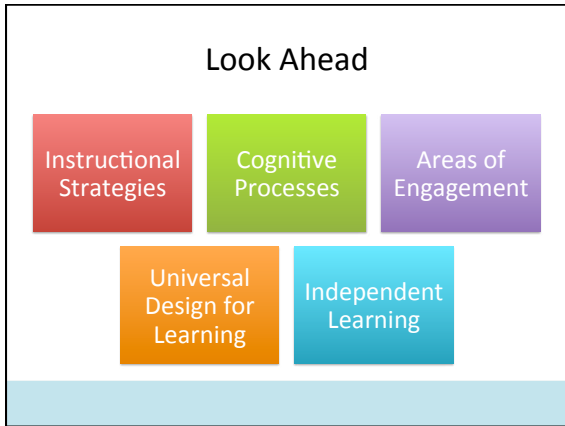
- determine how to provide *intervention support matched* to students' needs
- identify *technology* to reduce barriers to intensive intervention and provide access to instruction
- apply skills to *design and deliver* effective Tier 3 intervention, *integrated and aligned* with core instruction
- engage in *action planning* to support intervention across a continuum

Look Ahead


Engagement

Learning


Achievement



- ### Look Ahead
- Instructional Alignment
 - Standards (skills & knowledge)
 - Instructional Indicators
 - Student Profile
 - Student Characteristics
 - Cognitive Processes
 - Engagement
 - Transfer to Core
 - Universal Design for Learning
 - Infrastructure

- ### Where are you now?
- Table Discussion
 - What types of data do you currently review when problem solving intensive intervention needs?
 - List examples of the data you review on the Problem Solving Data padlet
 - Group Sharing
- 

- ### Data Sources
- FAIR – FCAT - EOC
 - Classroom tests/performance
 - SAT10
 - Attendance
 - Behavior
 - AIMSweb
 - Progress monitoring
 - Discipline referrals
 - Fluency checks

- ### Data Sources
- Gradebook/grades
 - Benchmark assessments
 - Classroom observations
 - iReady (Math) – Star Math – Math Facts
 - Star Reading – Reading Eggs – Reading Express
 - Previous FCAT scores
 - Curriculum assessments
 - More seems to be available for elementary than high school
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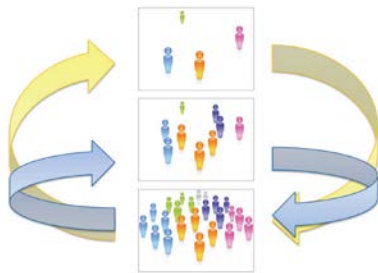
What Do You Believe?



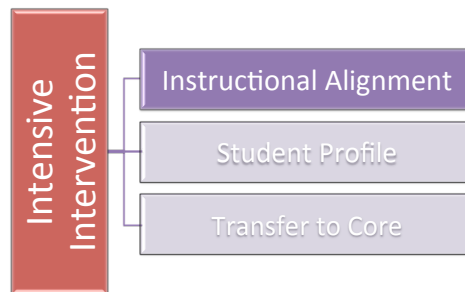
What Do You Believe?



What Do You Believe?



Problem Solving Intensive Needs



Standards

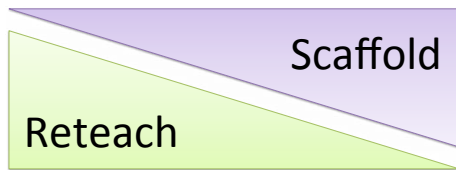
- Unpacking the Standard(s) – this information should come from Tier 1
 - Select a standard or set of standards
 - Circle the verbs and action phrases (skills – Do)
 - Underline the nouns and noun phrases (knowledge and understanding – K and U)
 - Identify pre-requisite skills implied within the standard
 - Determine instructional implications of the standard

Standards

- Example pre-requisite or implied skills
 - Reading | Planning and Problem Solving | Critical Thinking Skills | Maintain Focus | Task Persistence | Organization and Synthesis of Information | Self-Regulation | Active Listening | Language
- Instructional Implication
 - Review/reteach the implied skills
 - Provide scaffolding for implied skills

Implied Skills

- Remediate or Compensate?



Instructional Indicators

- Direct Instruction
 - Clear learning goals/intentions
 - Clear success criteria
 - Actively building engagement
 - Appropriate lesson presentation
 - Guided practice
 - Closure and independent practice

Instructional Indicators

- Gaining Meaning
 - Summarizing
 - Questioning
 - Clarifying
 - Predicting

Instructional Indicators

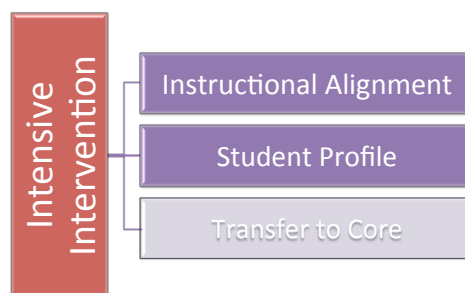
- Knowledge integration
- Background knowledge
- Connectedness to the student's world
- Problem-based instruction

Making Connections

- Table Discussion
 - Do current data sources provide information to make decision for instructional indicators?



Problem Solving Intensive Needs



Student Characteristics

- **Self-efficacy** | the confidence that we can learn
- **Self-handicapping** | choosing obstacles to avoid failure
- **Self-motivation** | ratio of intrinsic and extrinsic motivation
- **Self-goals** | master, performance, and social goals

Student Characteristics

- **Self-dependence** | being dependent on adults for directions, goals, help, etc.
- **Self-discounting** | believing positive feedback is invalid
- **Hopelessness** | feeling like there is no point in trying
- **Social Comparison** | self-image is based on a comparison with others

Student Characteristics

- Table Discussion
 - Brainstorm ideas to address student characteristics such as hopelessness or self-handicapping behaviors
- List ideas on the Student Characteristics padlet
- Group sharing



Student Characteristics

- Mentorship
- Counseling
- Be consistent with support
- Develop an agreement with the student and hold the student accountable for success
- Peer buddies
- Student ownership of behavior
- Student interest surveys

Student Characteristics

- PBS
- Goal mapping
- Building on strengths and interests
- Build a relationship of trust
- Allowing students to work at their level of instructional success and allow them to set the next goal
- Social skills and character lessons
- Build a toolbox of the implied skills they need

Student Characteristics

- Self monitoring of progress
- Scaffolding competence through successive approximations
- Build self-confidence through small group interactions
- Modeling self reflection and problem solving
- Lesson organizer with scaffolding
- Discuss fears
- Teach coping strategies

Student Characteristics

- Action Research - Algebra Study
 - Flexible Testing
 - 20 questions covering a range of difficulty
 - Students select five to answer

Cognition & Neurology

Neurological, or cognitive, processes (such as memory) can impact engagement, learning, and achievement. Students differ widely in their cognitive processing skills.



Can This Make a Difference?



Cognition – Input (visual/auditory)

- Recognizing size, shape, and placement of text
- Recognizing line and paragraph typography
- Distinguishing subtle differences in sounds
- Distinguishing figure and background sounds

Cognition – Input (visual/auditory)

- Demo – Readability (Chrome)



Clean Up Cluttered Pages
With the free Readability browser add-on, you're one click away from a better web experience.



Save for Reading Later
Readability stores articles you find on the web for reading at your convenience—any time, anywhere.

Instructional Scaffolds

- Input
 - Reading/focus guides
 - Fonts and font sizes
 - Spacing between words, lines and paragraphs
 - Visually organizing text with highlighters, comments, and stamps
 - Graph paper
 - Text-to-speech
 - Personal FM systems



Technology Tools – Input

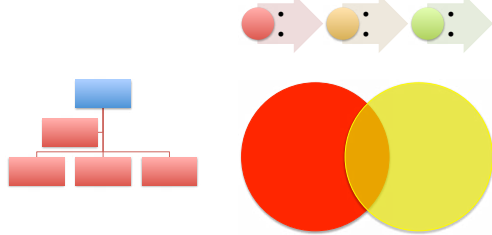


Cognition – Integration

- Sequencing
 - Ordering and sequencing information
 - Organizing and relating information
- Abstraction
 - Inferring meaning
 - Generalizing a text

Cognition – Integration

- Externalized thinking



Cognition – Integration

- Demo - [Rationale](#)



Instructional Scaffolds

- Integration
 - Graphic organizers
 - Concept maps
 - Mind maps
 - Timelines
 - Outlines



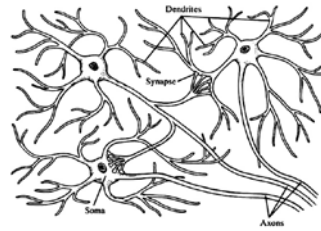
Technology Tools – Integration



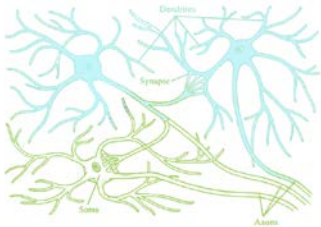
Cognition – Memory

- Short-term memory
- Long-term memory
- Engrams
- Long-term potentiation
- Long-term depression

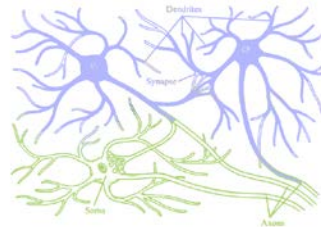
Cognition – Engram



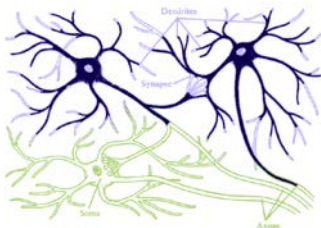
Long Term Potentiation



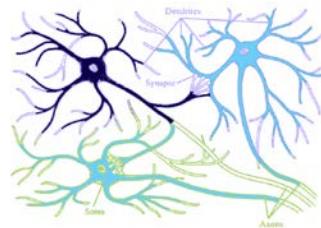
Long Term Potentiation



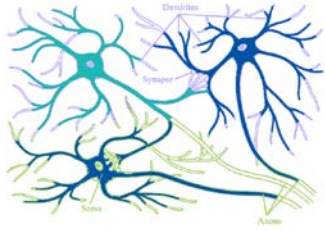
Long Term Potentiation



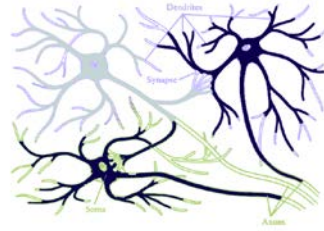
Long Term Depression



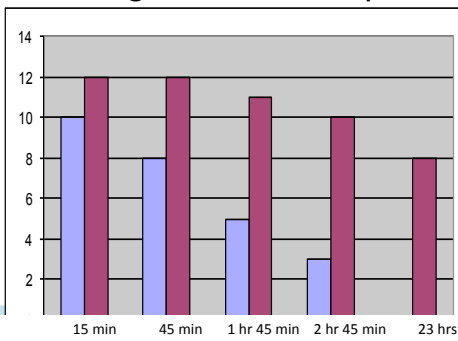
Long Term Depression



Long Term Depression



Cognition – Memory



Instructional Scaffolds

- Memory
 - Multiple text processing
 - Comparing/contrasting
 - Spread information across multiple media
 - Self-selecting icons or graphics (and sharing)
 - Notebooks / Journals
 - Review schedules



Technology Tools – Memory



Cognition – Output

- Spontaneous language
 - Self-selecting subject and related information
 - Organizing information and thoughts
- Demand language
 - Selecting related information
 - Organizing information and thoughts

Cognition – Output

- Demo – Demand speech



Instructional Scaffolds

- Output
 - Guided discussion questions
 - Cue cards
 - Graphic organizers
 - Written notes with main points highlighted
 - Extra time to prepare responses (with specific strategies)



Technology Tools – Output



Scaffold Integration

All of these types of scaffolds are most effective when used in conjunction with each other. For example, a student may be taught a strategy or system for highlighting and visually marking complex text. The text that was highlighted and marked may then be used to fill out a graphic organizer, concept map, timeline, etc. Further processing could include illustrating some of the information on the graphic organizer. That graphic organizer could then become a discussion support tool.

Adjusting Cognitive Loads

- Standards
- Identifying critical skills
- Finding the range of success
- Increasing complexity



Making Connections

- Table Discussion
 - Do current data sources provide information to make decision for cognitive needs, e.g. input, integration, memory, and output?



Engagement



As students invest in learning they can increase achievement within a lesson, across curricula, and across tiers of instruction.

Disengagement - Engagement



Areas of Engagement

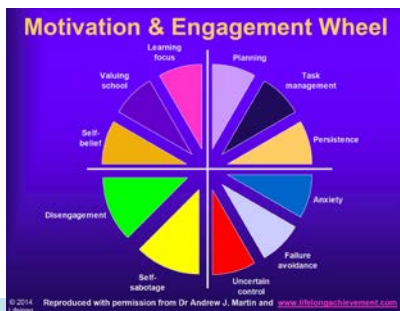
- Engagement has been shown to decline as students move from elementary to middle to high school.
- Some studies report that 40 to 60 percent of students are disengaged by high school.

Disengagement - Engagement

Where are your middle and high school students?



Areas of Engagement



Academic Engagement

- Curricular
 - Reading
 - Writing
 - Mathematics
 - Scientific/Analytical Thinking & Reasoning
- Digital Literacy
 - Research/Information Literacy
 - Effective Use of Digital Tools
- Productivity
 - Prioritizing, Planning, Management
 - Quality Product Development



Psychological Engagement

- Self Awareness
 - Self confidence
 - Self efficacy
- Self Management
 - Impulse control
 - Stress management
 - Self discipline
 - Organization
- Decision Making
 - Planning and problem solving
 - Goal setting
 - Progress monitoring



Social Engagement

- Social Awareness
 - Perspective taking
 - Appreciating diversity
- Relationship Skills
 - Interactive communication
 - Cooperation
 - Conflict resolution
 - Seeking and providing help



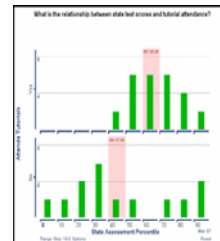
Normative/Transparent/Transportable

- Web based tools
- Mobile technologies
- Laptop technologies
- Game based instruction
- STEM/Career technologies
 - Microscopes
 - Robotics
 - 3D Printers
 - Virtual Worlds



Wiki resources

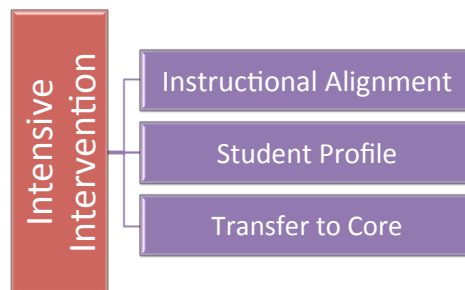
- Review of Measurement Tools
- Examples
 - Mofsoft FreeCalc
 - InspireData
 - Microsoft Mathematics
 - OE-Cake
 - Spore



Technology Tools



Problem Solving Intensive Needs

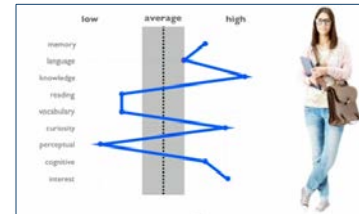


Universal Design for Learning



Universal Design for Learning

- [The Myth of Average](#)



Universal Design for Learning

- Options for Engagement
- Options for Representation
- Options for Expression

– Review links in wiki



Independent Learning Skills



The more a student can independently customize a variety of technology tools and strategies to solve problems, the more that student can problem solve barriers to achievement.

Upside Down



Upside Down



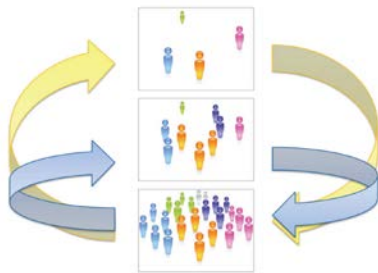
Upside Down



Independent Learning Behaviors

- Self progress monitoring
- Goal setting
- Time management
- Task persistence
- Organization of instructional materials and work
- Self selection of problem solving and learning tools and resources
- Self assessment of tools and resources

Generalizing Tier 3 to Tier 1

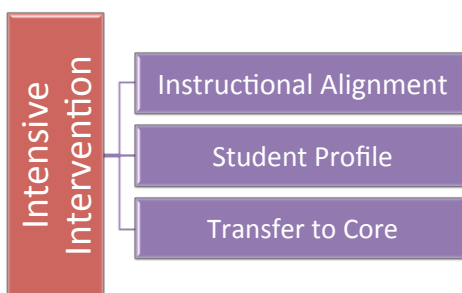


Infrastructure – Table Talk

- Review questions
- Complete survey
- View examples



Problem Solving Intensive Needs



Closing

- Wrap-up
 - Recap with handout
 - Review of Parking Lot
- Day 4/5 News
- Evaluation