

ICEL

- I Instruction
- C Curriculum
- **E Environment**
- L Learner

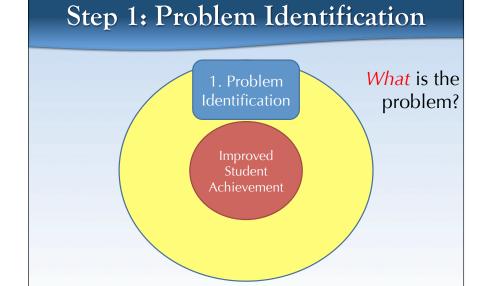


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"Problem solving assessment typically takes a more direct approach to the measurement of <u>need</u> than has been the case..." Reschley, Tilly, & Grimes (1999) "Intervention studies that address the bottom 10-25% of the student population may reduce the number of at-risk students to rates that approximate 2-6%" Fletcher, Lyon, Fuchs, & Barnes (2007)



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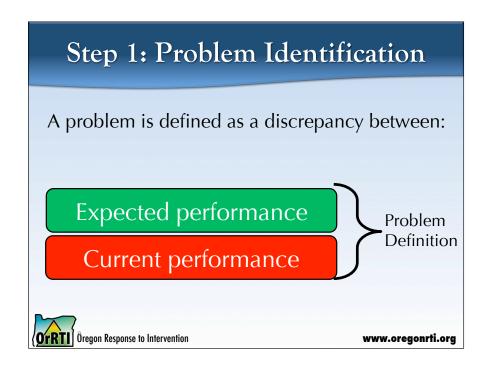
Step 1: Problem Identification

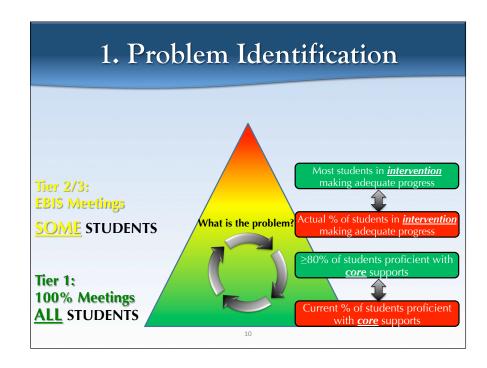
Problem Definitions should be:

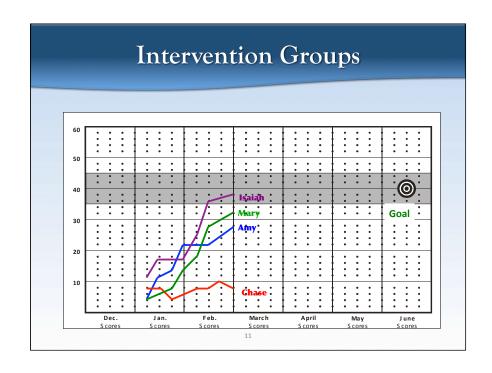
- 1. Objective observable and measurable (based on data/evidence)
- 2. Clear passes "the stranger test"
- 3. Complete

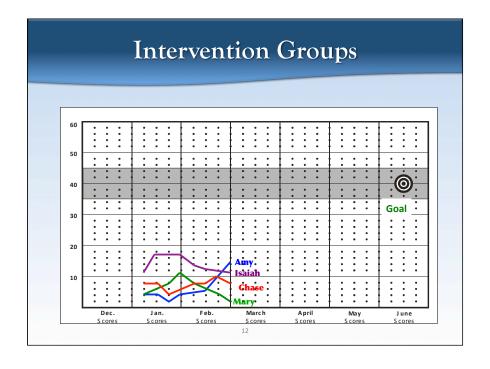


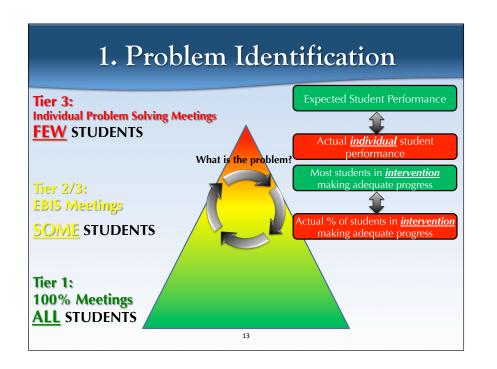
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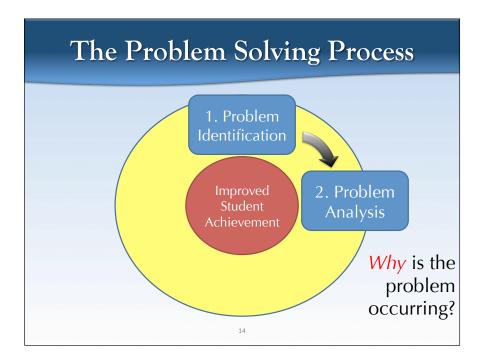


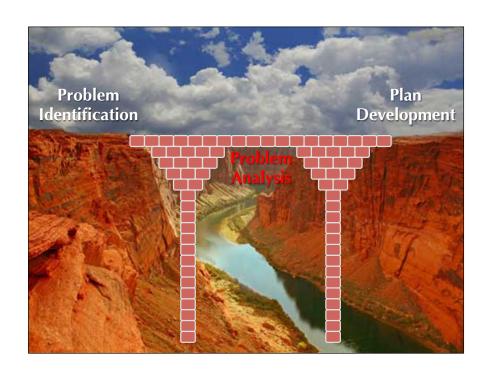


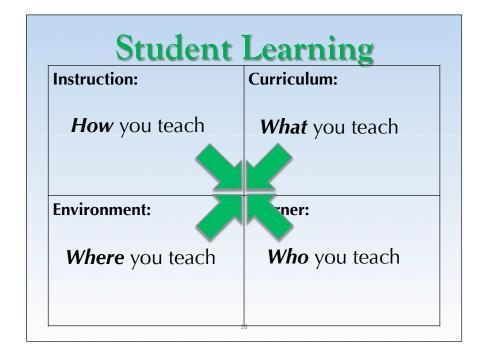


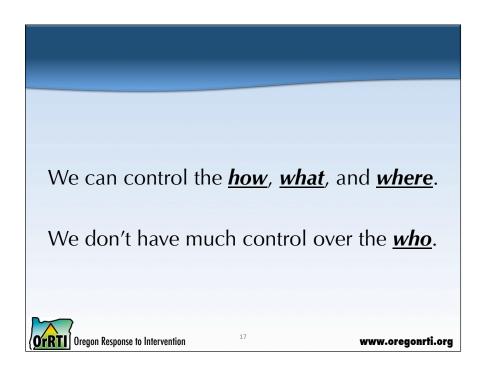




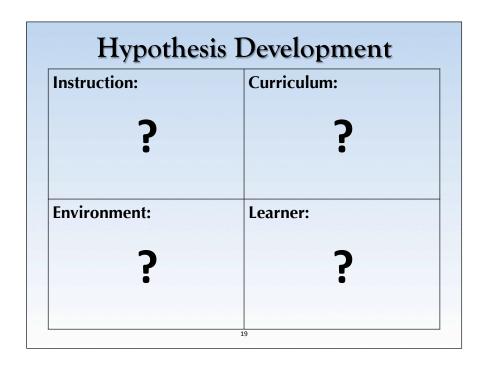


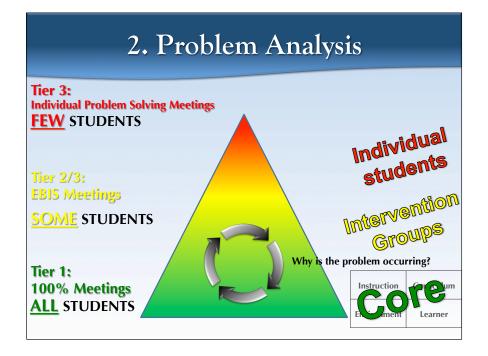


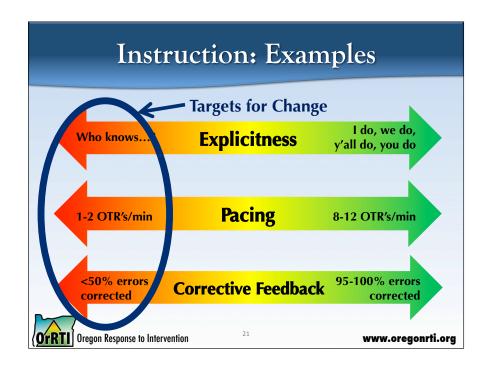


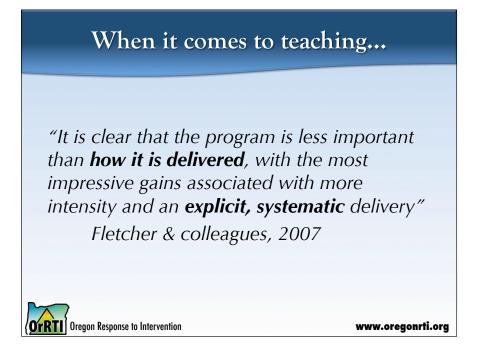


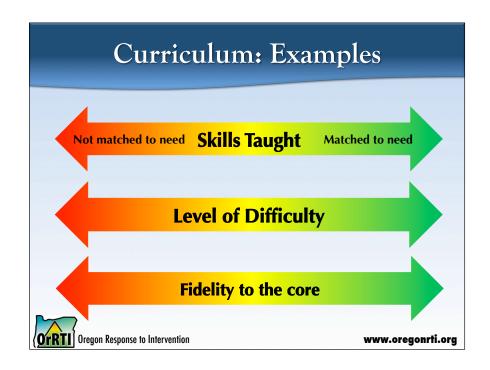
Effective <i>teaching</i> variables	Effect size	Other variables	Effec size
Formative Evaluation	+0.90	Socioeconomic Status	+0.5
Comprehensive interventions for students with LD	+0.77	Parental Involvement	+0.5
Teacher Clarity	+0.75	Computer based instruction*	+0.3
Reciprocal Teaching	+0.74	School Finances	+0.2
Feedback	+0.73	Family Structure	+0.17
Teacher-Student Relationships	+0.72	Whole Language	+0.00
Direct Instruction	+0.59	Retention	-0.16

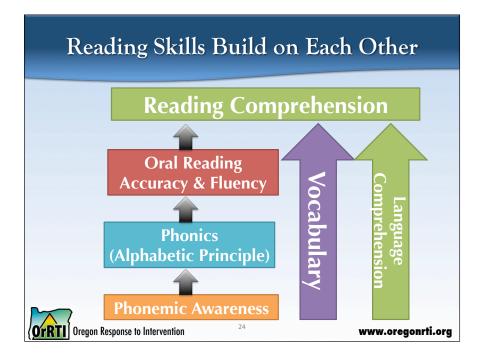


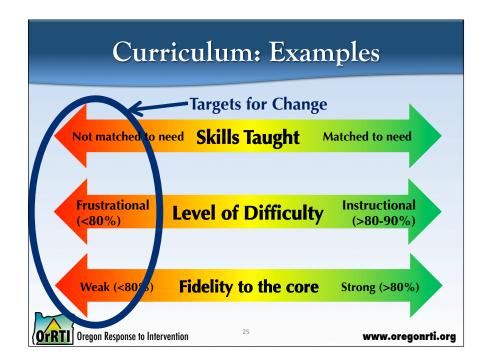


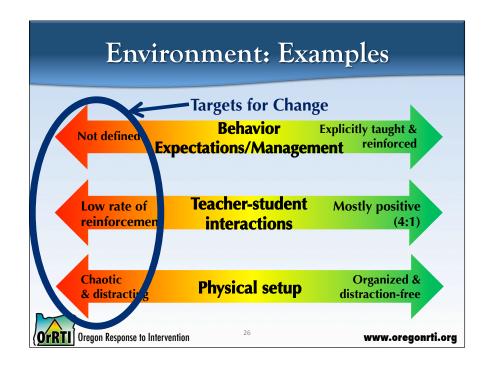


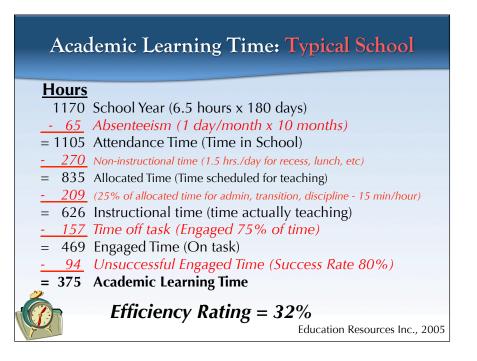


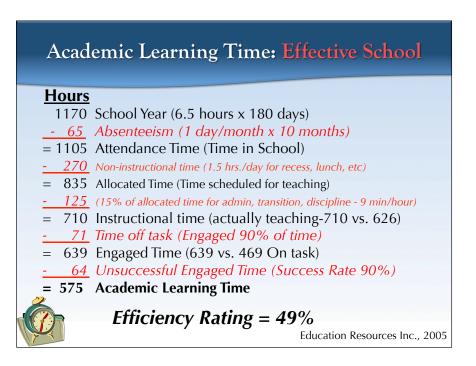




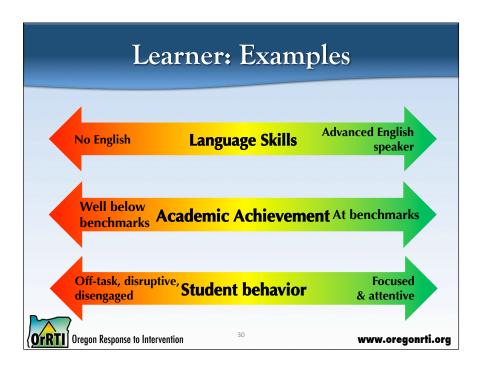




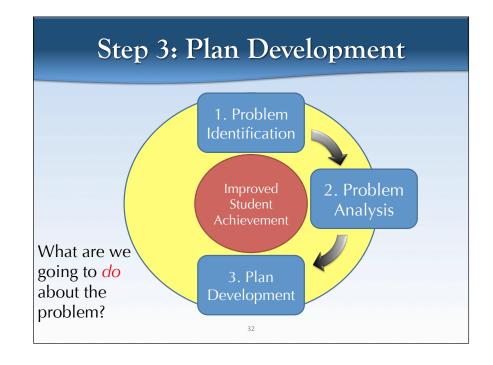


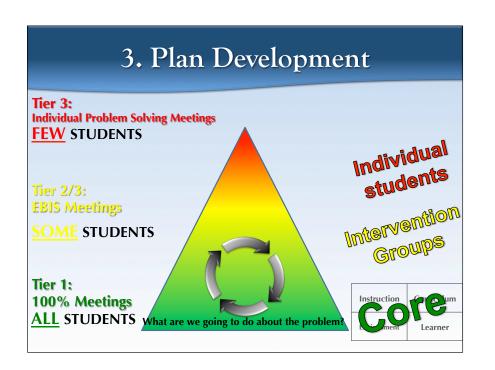


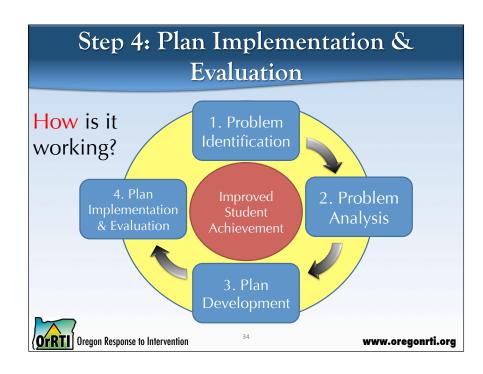
The Difference: Typical vs. Effective Schools					
Variable	Typical School	Effective School	Time gained	How the time is gained	
Allocated Non- instructional Time	25% (15 min/hr)	15% (9 min/hr)	+84 more hours	Teaching expectations, teaching transitions, managing appropriate and inappropriate behavior efficiently	
Engagement Rate	75%	90%	+86 more hours	Better management of groups, pacing	
Success Rate	80%	90%	+30 more hours	Appropriate placement, effective teaching	
Academic Learning time	375 hours	575 hours	= 200 more hours (53% more) OR 95 more school days (4-5 months!)		

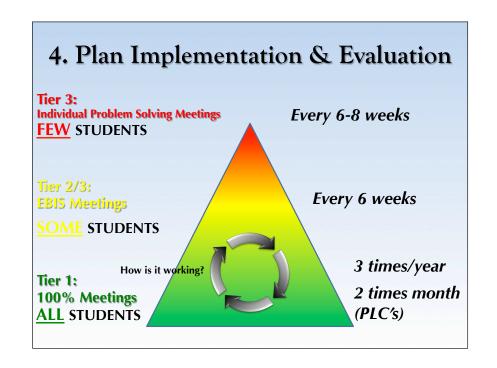


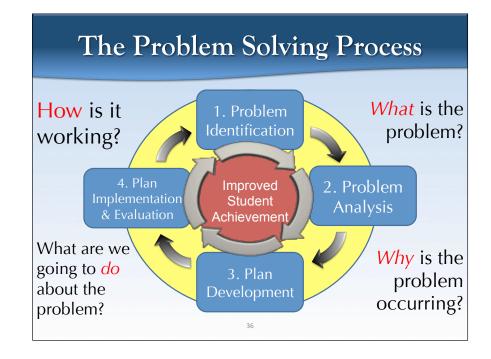












Big Ideas

- Follow the problem solving steps/questions:
 - 1. What is the problem?
 - 2. Why is it occurring?
 - 3. What are we going to do about it?
 - 4. How is our plan working?
- The steps/questions are the same at each tier
- Focus on what **we can control** (The ICE)
- Use data/evidence for all steps at all tiers



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Acknowledgements

- Florida Problem Solving & Response to Intervention Project
- Heartland Area Education Agency 11

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