

### Webinar 4: Individualized Instruction & Assessment

# Optimizing Learning Opportunities for Students: A Tool for Practitioners to Individualize Instruction

### Goals for the Webinar

- Discover technological supports available for individualizing instruction
  - Assessment to Instruction (A2i) Assessment, Grouping, and Lesson Planning
  - Optimizing Learning Opportunities for Students (OLOS) –
     Observation System
- Understand how these two systems work together

 Hear both researcher and practitioner perspectives on using these tools.

## Acknowledgements

Institute of Education Sciences Grant # R305N160050 Optimizing Learning Opportunities for Students (OLOS) Early Learning Observation System

Dr. Carol Connor

Dr. Deborah Vandell

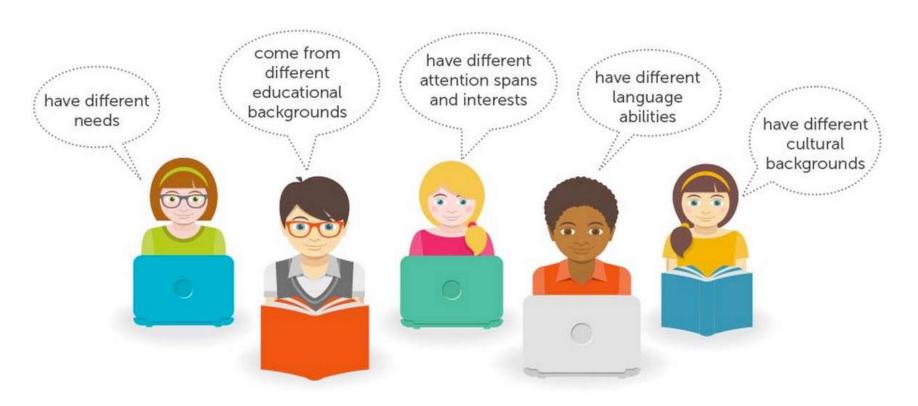
**Individualizing Student Instruction Laboratory** 



## Defining Individualized Instruction

### WHY DIFFERENTIATED INSTRUCTION?

Classrooms are filled with students who:



## Assessment to Instruction (A2i)

- A professional support system for K-3 teachers
  - Embedded Assessments
  - Data-driven Instructional Recommendations
  - Aligned Lesson Plans
  - Customized Support



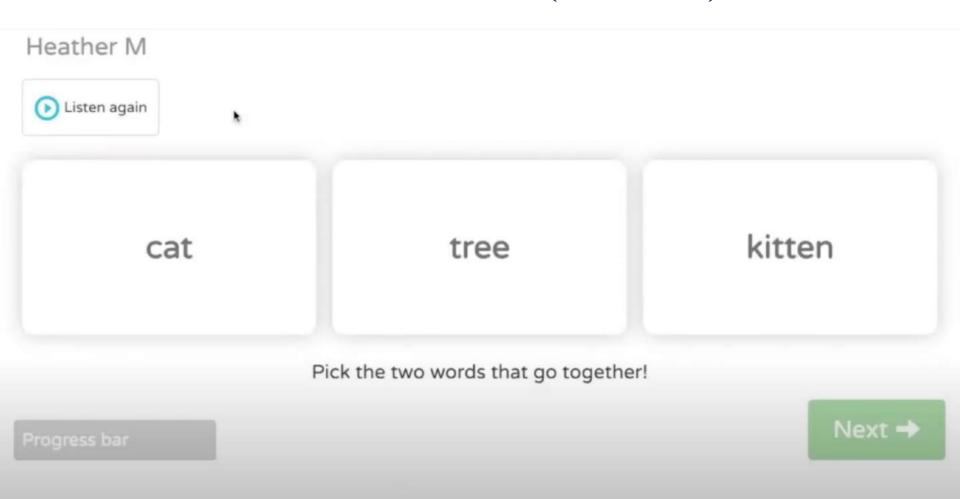
## A2i Assessments







## Word Match Game (WMG)

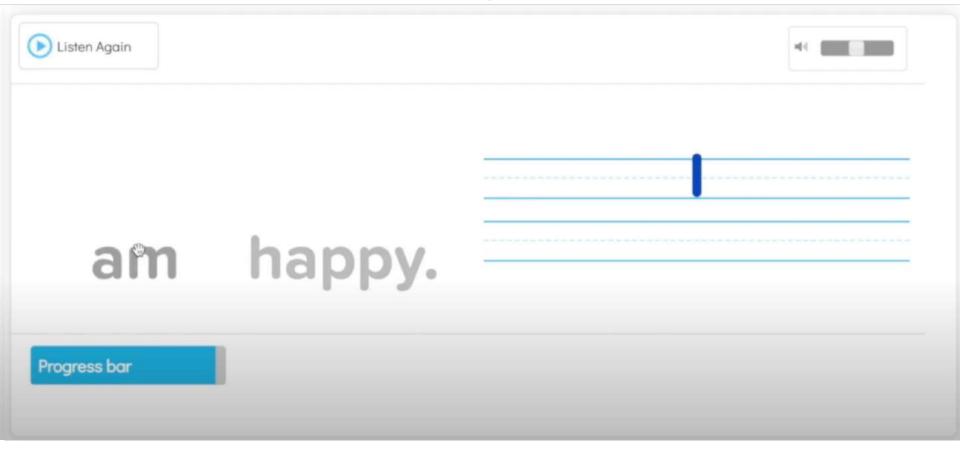


## Letters 2 Meaning (L2M)



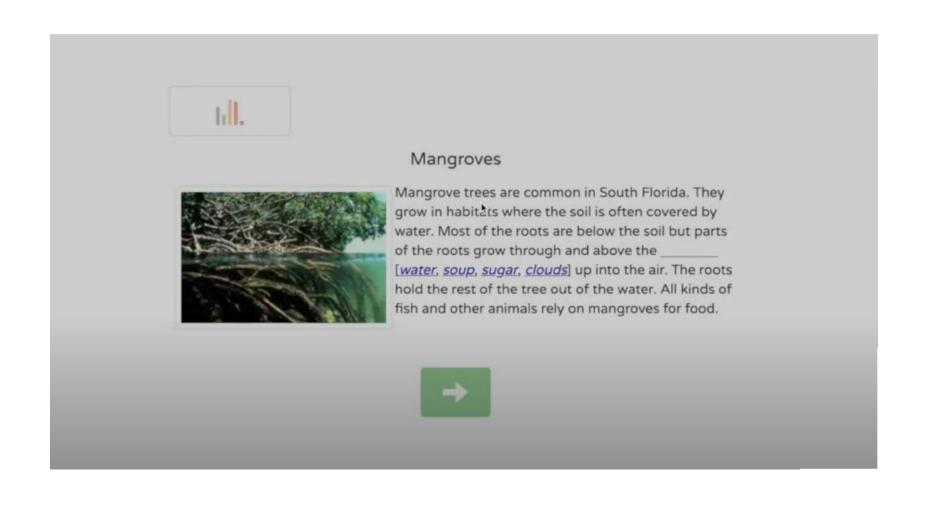


## Letters 2 Meaning (L2M)

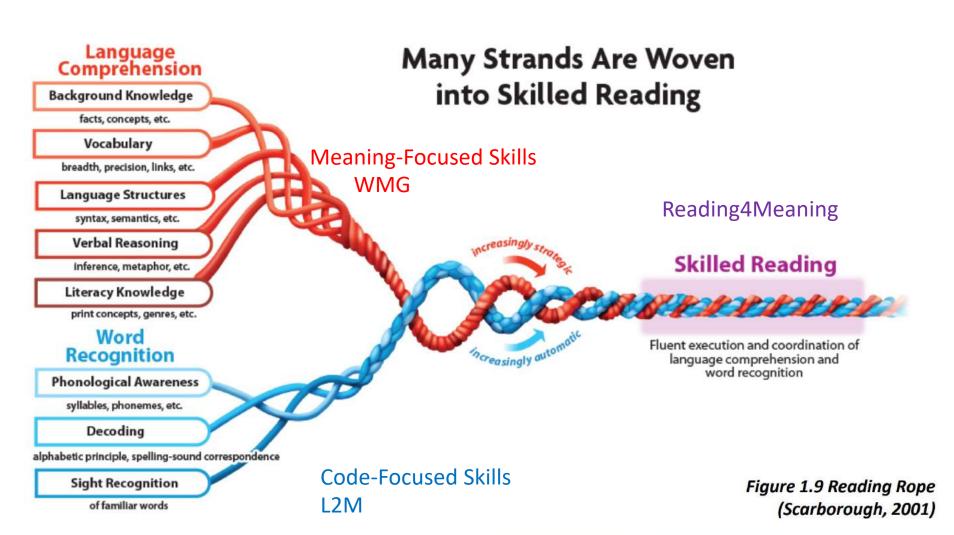




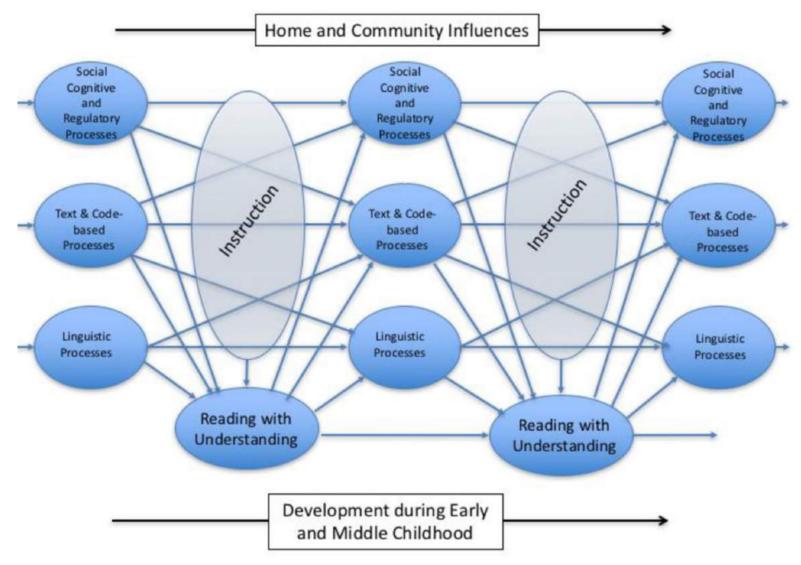
## Reading 4 Meaning (R4M)



### Theoretical Framework



### Theoretical Framework

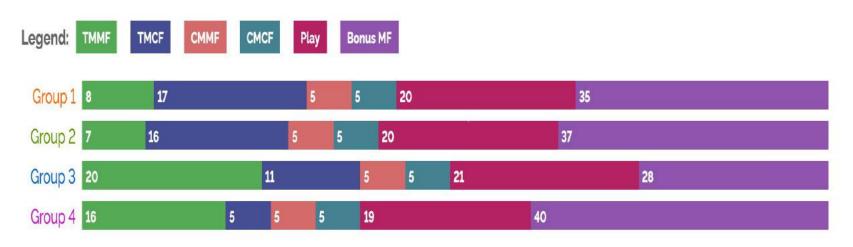


Connor, C. M. (2016). A lattice model of the development of reading comprehension *Child Development Perspectives*, *10*(4), 269-274.

### Data-driven recommendations

Recommended minutes = 3.24 (WMG score) + 5.2 (L2M score) + 8.7 (R4M Score) -2.2

### DAILY RECOMMENDED GROUP MINUTES



TM-MF=Teacher-Managed, Meaning-Focused

TM-CF=Teacher-Managed, Code-Focused

CM-MF=Child-Managed, Meaning-Focused

CM-CF= Child-Managed, Code-Focused



## Data-driven recommendations

Recommended minutes = 3.24 (WMG score) + 5.2 (L2M score) + 8.7 (R4M Score) -2.2

Group 1	TEACHER MANAGED		CHILD MANAGED		GROUP		
	Meaning-focused	Code-focused	Meaning-focused	Code-focused	Recommended	Actions	
GaGa, Lady	14	26	22	27	Group 1 🕕	Student Actions	<b>‡</b>
Imahara, Grant	13	26	24	27	Group 1 🕕	Student Actions	<b>‡</b>
Kidman, Nicole	13	20	23	22	Group 1 🖈	Student Actions	<b>\$</b>
Pratt, Chris	11	19	28	23	Group 1 🖈	Student Actions	<b>‡</b>
Group Minutes	13	23	24	25			

Group 4	TEACHER M	IANAGED	CHILD MA	NAGED	GROUP		
	Meaning-focused	Code-focused	Meaning-focused	Code-focused	Recommended	Actions	
Fey, Tina	11	15	32	12	Group 4 🖈	Student Actions	<b>‡</b>
Jordan, Michael	14	17	25	5	Group 4 A	Student Actions	\$
Vonn, Lindsey	14	17	26	5	Group 4 🖈	Student Actions	\$
Winfrey, Oprah	17	18	29	5	Group 4 🖈	Student Actions	\$
Group Minutes	14	17	28	7			





Le

• Group

• Teache
12 minut

• Teache
17 minut

• Child-N
36 minu







## Customized Support

- Literacy Outcomes Specialist
- Implementation Planning
- 1:1 support and coaching for teachers
  - How close are teachers getting to hitting the recommended minutes for each child?





### **Assessment Team Mission**

To create a classroom observation tool to be used by practitioners to assess preschool and early elementary school classroom elements that are predictive of later learning and school achievement



## Updates to A2i during ELN

- Due to focus on early learners
  - Refinement of PreK algorithms
  - Incorporation of Play into the recommendations
  - Development of an observation system that could capture important instruction and student/teacher talk in PreK-3<sup>rd</sup> grade



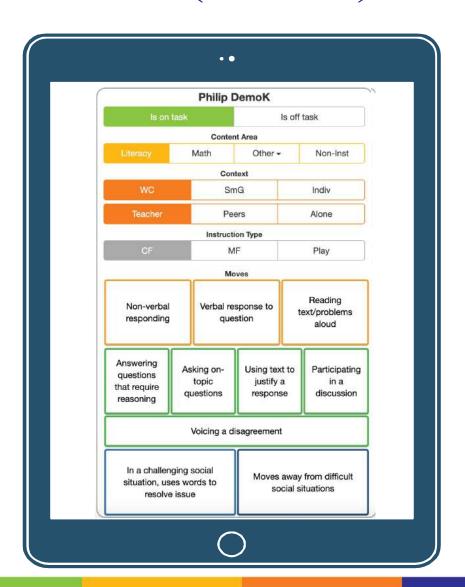
## What is OLOS?

 An observation system that can capture the classroom experiences of individual children in the same classroom

Focus on students

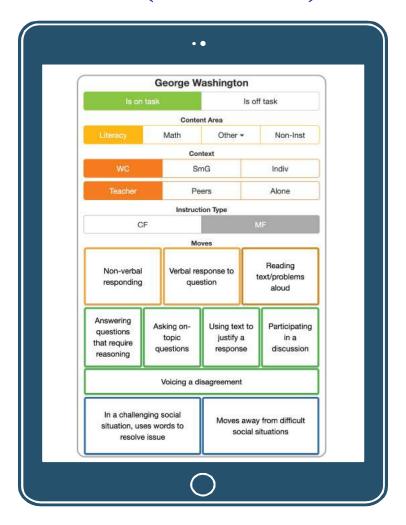
 Designed to be used for and by practitioners with a focus on providing actionable information for teachers to support individualized instruction

## Optimizing Learning Opportunities for Students (OLOS) - Students



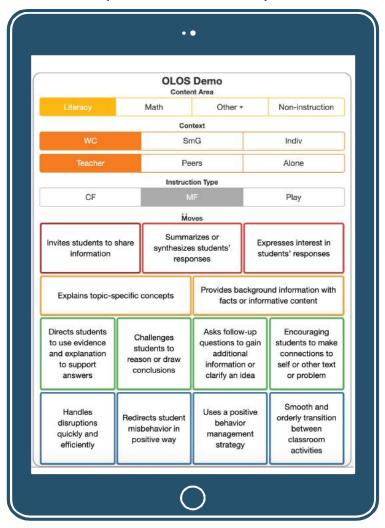


## Optimizing Learning Opportunities for Students (OLOS) - Students



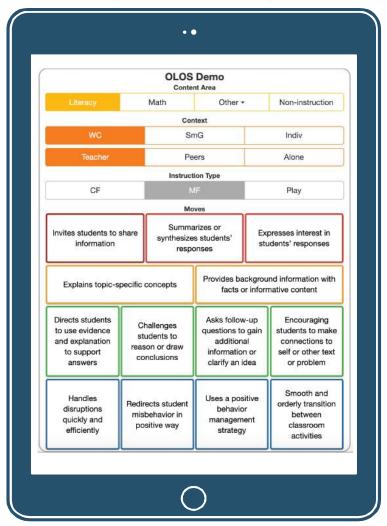


## Optimizing Learning Opportunities for Students (OLOS) - Teacher



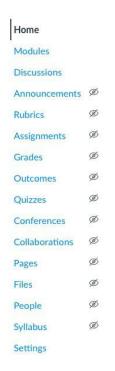


## Optimizing Learning Opportunities for Students (OLOS) - Teacher





## **OLOS Online Training**



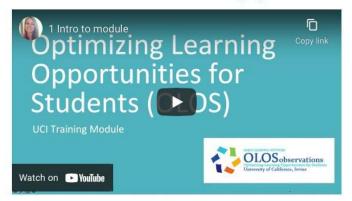
### **OLOS Reliability Training**



Navigating this Course - START HERE



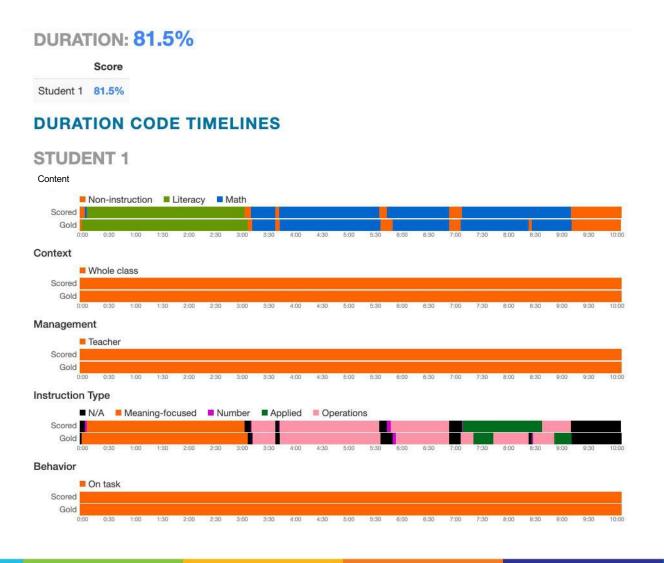
#### Welcome to The OLOS Coding System!



OLOS is designed to be a practitioner friendly observation system that relies on technology to make practical, and reliable, careful observation of individual students participating in learning activities. OLOS has been designed as a professional development tool to improve teaching and classroom practices. Focusing primarily on language, literacy, and mathematics instruction, OLOS captures the content of the learning opportunity, students' participation in the learning opportunity, and teachers' moves that facilitate effective opportunities to learn for individual children. The system also includes more global assessments of the quality of the learning environment and structural aspects of the classroom.



## Training and Certification Process





## **OLOS** Teacher Dashboard

#### **Teacher Moves**

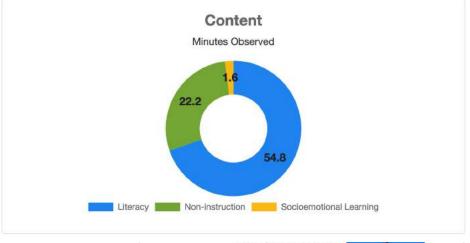
Observed Occurrences

### **OBSERVATION OVERVIEW**

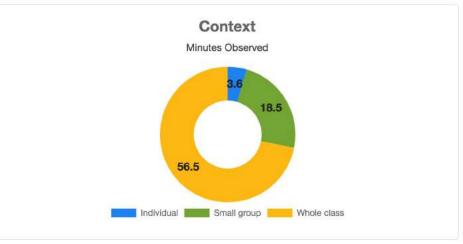


#### What Your Data Means

These graphs give a summary of the types of instruction that were observed in your classroom as well as the context in which that instruction was given. You can also see the kinds of talk you and your students participated in during the observation.



M

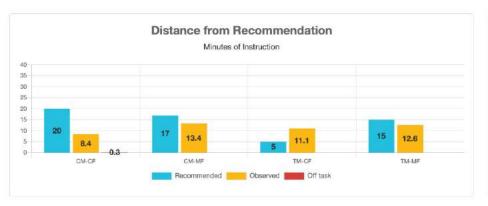




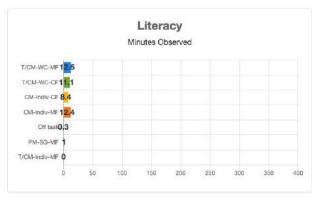


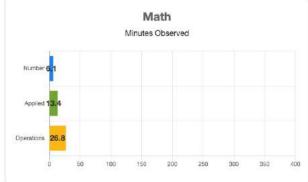
## **OLOS** Teacher Dashboard

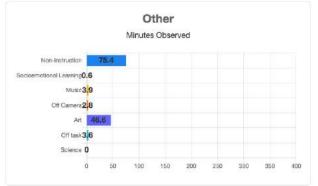
#### STUDENT DETAILS:















## Let's hear from a practitioner!

## Questions for our practitioner

- What are the most useful elements of A2i?
- Where is A2i currently being implemented?
- What do practitioners find most useful about OLOS for individualizing instruction?
- What part of the day would you choose to observe to make the information most useful for the teacher?

## Power of OLOS in the ELN

- 4000 unique observations of students in nearly 200 classrooms in 7 different states
- How much code- and meaning-focused instruction/math/non-instruction is happening in each grade?
- Are there differences among sites?
- Are there systematic differences in the classroom experiences of children from different demographic groups?
- Which elements captured by OLOS are most predictive of children's literacy, math, and social-emotional growth across the school year?

## Putting it all together

- A2i provides the assessment and recommendations to teachers to allow for planning of individualized instruction
- The lesson planning tool allows teachers to choose activities that align with the recommended minutes
- OLOS is an observation tool that can track children's individual experiences in classrooms
- When OLOS is used alongside A2i, it can give teachers powerful information about the extent to which individualized instruction is meeting each child's instructional needs

## What I didn't get to tell you

Math

English language learners

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Learningovations.com



## Q&A

- What questions do you have?
  - Put them in the Zoom Q&A box
  - Post them in the comments section of our Facebook Live video
     @earlylearningnetwork



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## Thank You

The Early Learning Network is funded by the Institute of Education Sciences.

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## Evidence

Table 1
Summary of Randomized Controlled Trials Supporting the Efficacy of ISI/A2i

Study Citation	Study Years	Grade	% of students qualifying for the National School Lunch Program (NSLP)	effect size (d) on standardized tests of letter- word reading or reading comprehension
Connor et al., 2007	2005–2006	First Grade	57%	0.25
Connor et al., 2011	2006–2007	First Grade	45%	0.50
Al Otaiba et al., 2011	2007-2008	Kindergarten	60%	0.52
Connor, Morrison, et al., 2011	2008–2009	Third Grade	47%	0.20
Connor et al., 2013	2008-2009	First Grade	39-59%	0.32
Connor et al., 2013	2009-2010	Second Grade	39-59%	0.44
Connor et al., 2013	2010-2011	Third Grade	39-59%	0.25
Connor et al., 2013	2008–2011 cumulative	First-Third Grade		0.76

