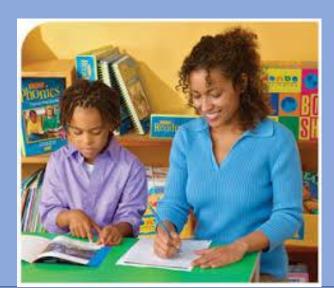
Advance literacy

Caimber accelerates literacy development through automated assessment and personalized learning



Traditional ORF	Р
Testing Models:	h
Traditional ORF Testing Models: 1-on-1 Testing	fa

Time Consuming Possible Human error and bias Emphasis on speed rather than comprehension Inconsistent scores Scores don ot inform instruction



	Pedro had just moved from Mexico when 1 2 3 4 5 6 $7he saw an accident. A little boy had8$ 9 10 11 12 13 14 15	I														
	fallen into an opermanhole, and now h	Tin	ning	1-minute maxin Stop after 1 min		tart y	our sto	opwatch	n afte	er tellir	ng the	stu	dent to	beg	in. Sa	ay
	16 17 18 19 20 21 22 2 leg was caught between two pipes.	Remin	Vait/ nder	If the student st (allowed one tin —If the student provides an —Otherwise, s	ne): has no off-track	t said c resp	anythir onse, s	ng at all, say Tell r	provic ne as	des a v s <i>much</i>	very lin n as yc	nited Nu ca	respor In abou	se, o <i>it th</i> e	r	y.
	Pedro was just ten. He didn't thinkhet	Discont	nue	After the first re 5 seconds, say								ng c	or gets	off ti	ack f	or
	s_{1}^{30} s_{1}^{31} s_{2}^{34} s_{3}^{35} s_{6}^{36} s_{7}^{38} could rescue the boy alone.	26 27 2 49 50 5	8 29	5 6 7 8 9 1 30 31 32 33 53 54 55 56 76 77 78 79	34 57	35 3 58 5	36 37 59 60	38 3 61 6	9 40 2 63	0 41 3 64	42 65	43 66	44 45 67 68	46 69	47 70	48 71
	39 40 41 42 43										F	lete	ll Tota	l:		
L		1 Provid	es 2 d	onse: (Note: If the or fewer details or more details	3	Provi Provi	des 3 d des 3 d	or more or more main ide	detai detai	ils in a ils in a	a mea	ning	ful seq	ueno		at



The Solution

MOBY.READ

A Fully Automated Self-Administered Oral Reading Fluency Assessment for Grades K-5



Advantages

TARGETED INSTRUCTION: Teachers gain more time to focus on instruction and support of readers.



EFFICIENCY: Online self-administered and immediately scored = saves time and money. INNOVATIVE, PERFORMANCE-BASED ASSESSMENT: Developed by leading experts in machine learning, speech recognition technologies, and reading instruction.



ENGAGEMENT: Elegant, intentional user experience design drives student engagement with the assessment.

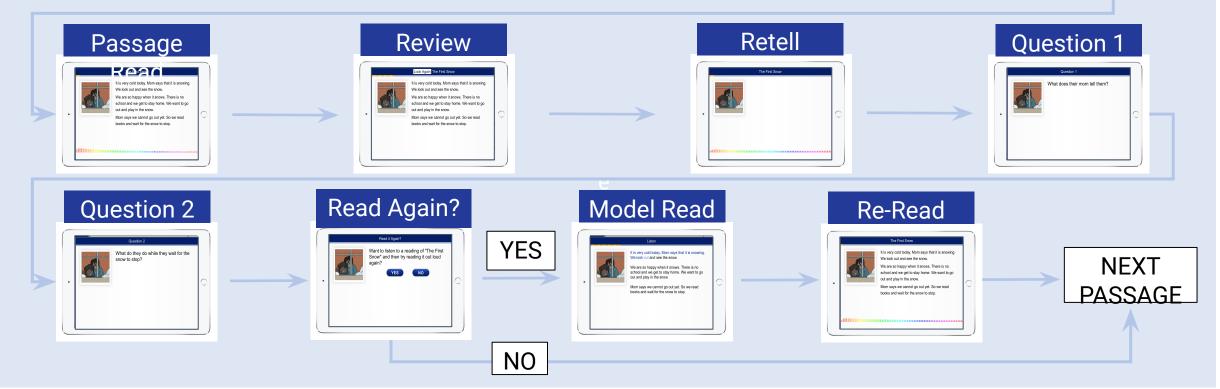


VALID AND OBJECTIVE: Advanced speech recognition technologies deliver authentic, valid, and objective assessment of key early reading skills.

MOBY.READ Benchmark Test



1 Practice Passage, 3 Scored Passages



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Features and Benefits - Benchmarking

• Speech recognition engine

- Adapted for oral reading fluency application
- Scoring engines built and tested with school-aged children in real school environments.
- Oral Response to Comprehension Questions
 - Retell promotes comprehension and vocabulary development.
 - Questions oral response shows deeper understanding
 - Multi-modal approach fosters language comprehension
- Re-Reads
 - Model highlighting accurate reading at a reasonable rate. and with good phrasing, intonation, and expression



Features and Benefits - Benchmarking

- Scores and audio recordings available immediately online
 - Enables quick and effective decision making
- Scores on multiple dimensions
 - Moby.Read level, mWCPM, WCPM, Accuracy, Comprehension and Expression
 - Moby.Read level -combination of Rate, Comprehension, and Accuracy.
 - mWCPM based on words correctly read and the difficulty of the passages
 - WCMP rate at which a student reads words correctly per minute
 - Accuracy percentage of correctly read words out of the total number of words attempted.
 - Comprehension how well the student understands the material based on retellings and answers to content questions
 - Expression the student's ability to read with meaningful phrasing, timing, and intonation unique to Caimber



Features and Benefits - Benchmarking

Audio Recording

 For teacher or parent review the Audio Performance page displays four or five recordings: the student's first reading, the student's retelling of the passage, the student's answers to the two short-answer questions, and the second reading of the passage after listening to a model reading

Auto Running Records

- Automated error analysis of misreads and omissions of each passage read aloud. Passage-level Accuracy, WCPM, and Expression scores
- Printable records for further analysis
- Progress Charts
 - Display current and previous test scores with corresponding Automatic Running Records



Scores in Running Record

Audio

	R	Roster As	signment	Charts	Audio	Resources •									
										2021-22: Fou	rth Grade 🗸	DOR33398: Ellaria	Sand		
ID	Alias	Student		Token	4	Form	Level	mWCPM	Acc	Comp	Expr	Date			
DOR33398		Ellaria Sai	nd	TIRAF		BM - 4W	mO	110	Instr	5.0	3	29 Jul 2021 🗸			
	😪 Squ	irrels				0	Chocolate			0	Storm at	ea			
												Running Rec	ord		
						Flying So	quirrels			E	Pa	assage Scores			
Sur and		Birds and	bats can f	ly. But they	/ aren't t	he only animal	s that can			1		Accuracy			
me 1						glide betweer				1	1	92%			
- w	201	branches.								0		5270			
-	L					n piece of skin				1		WCPM			
		their front and back legs that catches the air when they jump.									103 wсрм				
						red flight, like				1					
		a bat. However, they can coast briefly on the wind before landing safely in a tree.									Expression				
LEGEN	D		1.5		cauirral	s, some human	claudiuore			1		3 OF 4			
misread	1			and the second	A STATE OF STATE	ng squirrel. Th	and the second			1			_		
omission	n					soar through t				1	Se	If-Corrects Rarely			
unread te	ext			and the second	and the second	we should inclu				1					
		squirrels a								0					
										10					
PLAY:		PASSAG	δE			iLL	O QUES	TION 1	0 0	QUESTION 2		RE-READ			
PLAT.		S I ASSAG					0 0000		0.	2020110112					

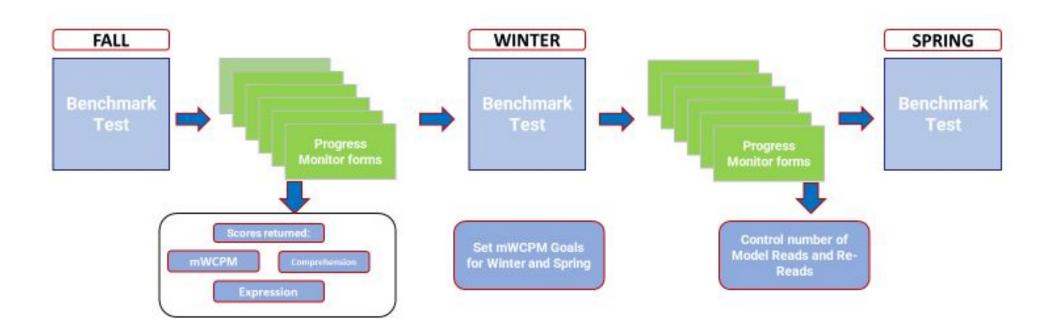
MOBY.READ Progress Monitors

Standardized method to evaluate a student's progress toward reading target

- Evaluate the effectiveness of instruction or intervention
- Progress charts show rate of improvement
- Over 100 passages at Grades K-5
 - Customize Winter and Spring WCPM goals
 - Goals auto mapped to progress charts
 - Options to choose passage and number of reads
 - Oral responses for comprehension, scoring, audio recordings and re-reads available.
- Consistent UI/UX with benchmarking



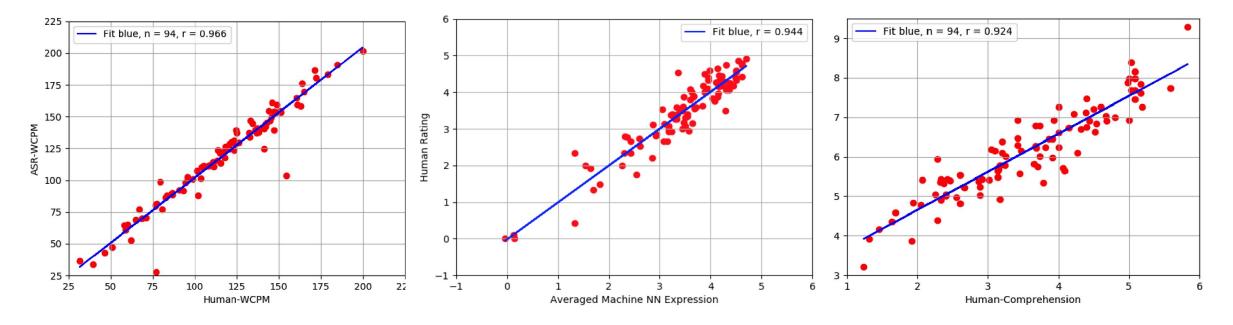
MOBY.READ Progress Monitor Flow



Moby.Read uses a student's performance on a Benchmark assessment to recommend a PM Tier that is both age- and ability-appropriate.

<u>փ մի իվի ափվիտատակար վի տիվի վիի տիկիսատավիր մի տանգերիսը վի օվիտասավիիսը տիր տերկանիսի տիր մի մի սիր տարասատ</u>երիսը տիլի մի

Validity: Human scores – Machine Scores



Accurate Reading Rate (WCPM)

Average Human vs. *Moby.Read* Human Inter-rater reliability = 0.99 r(Moby, Average Human) = 0.97

Expression

Average Human vs. *Moby.Read* Human Inter-rater reliability = 0.88 r(Moby, Average Human) = 0.94

Comprehension

Average Human vs. *Moby.Read* Human Inter-rater reliability = 0.84 r(Moby, Average Human) = 0.92

In Development

- In-depth analysis of benchmark oral readings to identify strengths and weaknesses in basic reading skills – consistent with SOR
- Dynamic, interactive report pages that rate and illustrate the student's basic reading skills as analyzed from recorded benchmark performances
- Reduce or eliminate number of assessments required to provide appropriate instruction
- Teacher and/or system created custom lessons

- Illustrate strengths and weaknesses for students and teachers
- Practice for students in areas for improvement
- Skill-specific level measurement with skill-specific learning activities
- Multi-modal approach to multi-literacies
- Refined skill reporting for teachers and parents
- Personalized learning paths

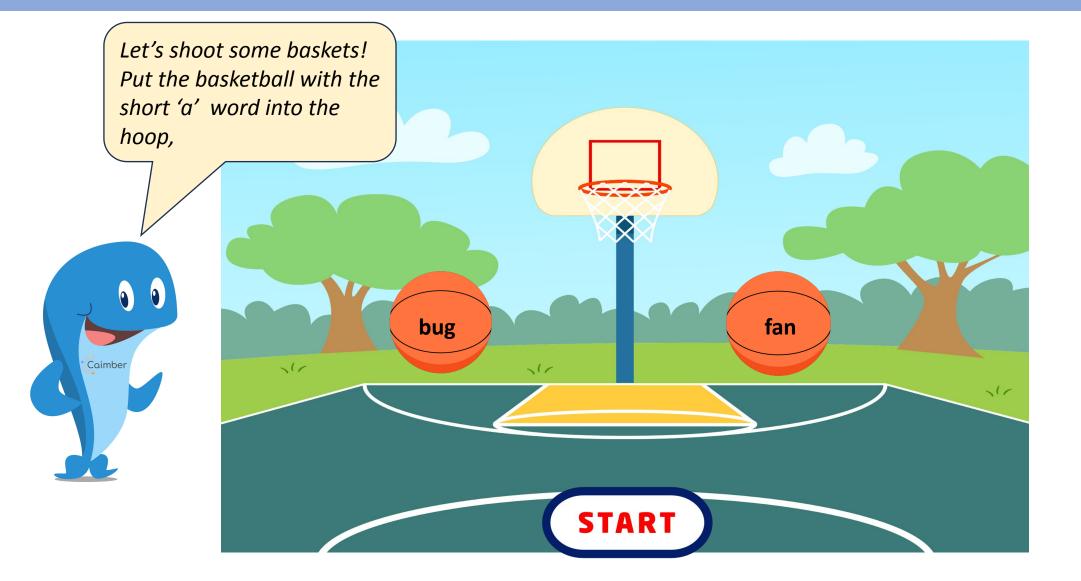
Sample – Word Work

Word Work

- 15-min. practice session * 3 days a week (set up 5 min., activity 10 min.)
- 1 Sight word practice activity and 2 WordWork practice activities per session
- 1st grade phonics 16 units total; 3rd grade estimated 25 units total

UNITS	Sight Words	Sight Words	Sight Words	Word Work 1	Word Work 2	Word Work 3	Word Work 4	Word Work 5	Word Work 6	 Sight Words 1 activity per session Flash cards –
Grade 1 Unit 1 CVC short A	Flash cards	Picnic Memory	Balloon Pop	Sound ID	Word Pairs	Word Basketball	Word Ladders	Flash Cards 2	Sentence Reading	20 words Activities practice on missed words, review words Word Work
Grade 3 Unit 14 Vowel Patterns Long A	Flash cards	Picnic Memory	Balloon Pop	Sound ID	Word Pairs	Word Basketball	Word Ladders	Flash cards 2	Sentence Reading	 6 activities per session 2 practice activities per session Repeat

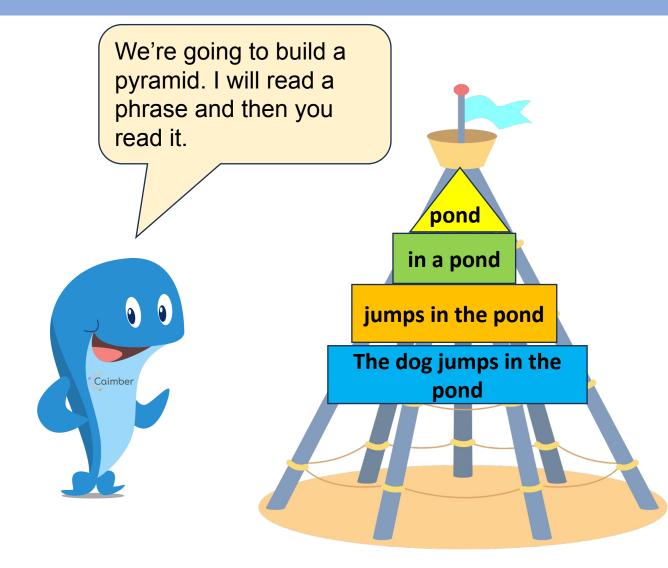
Word Basketball



Sample – Fluency Work

FLUEN	CY PRACT		VITIES	• 3 s	-min. practic kill building weeks per te	activities pe	r practice se	ssion	min., activit	y 10 min.)		
Unit 1: P1	Unit 2: P2	Unit 3: P3	Unit 4: P4	Unit 5: NP1	Unit 6: NP2	Unit 7: NP3	Unit 8: P1a-3a	Unit 9: P4a, NP1a- 2a	Unit 10: NP3a & Review	Week 1-6: Basics a. Phrase-level b. Sentence-level (punctuation / expression) c. Passage-level		
1a: Phrasing	2a: Phrasing	3a: Phrasing	4a: Phrasing	1a: Phrasing	2a: Phrasing	3a: Phrasing	P1a: Repeated Reading	P4a: Repeated Reading	NP3a: Repeated Reading	Week 7-8: Apply your Skills Repeated reading		
1b: Punctuation /Expression	2b: Punctuation /Expression	3b: Punctuation /Expression	4b: Punctuation /Expression	1b: Punctuation /Expression	2b: Punctuation /Expression	3b: Punctuation /Expression	P2a: Repeated Reading	NP1a: Repeated Reading	Review	(Model Listen & Re- Read) x = N • Px: Moby benchmark passage		
1c: Passage Practice	2c: Passage Practice	3c: Passage Practice	4c: Passage Practice	1c: Passage Practice	2c: Passage Practice	3c: Passage Practice	P3a: Repeated Reading	NP2a: Repeated Reading	Review	 NPx: New passage Pxa: Parallel Moby benchmark passage NPxa: Parallel new passage 		
In de		ade 3 Wir It Grade 1			Gi	est Ed Us rades 1,3 inter	ability St Week 5	udy				

Sentence Pyramid

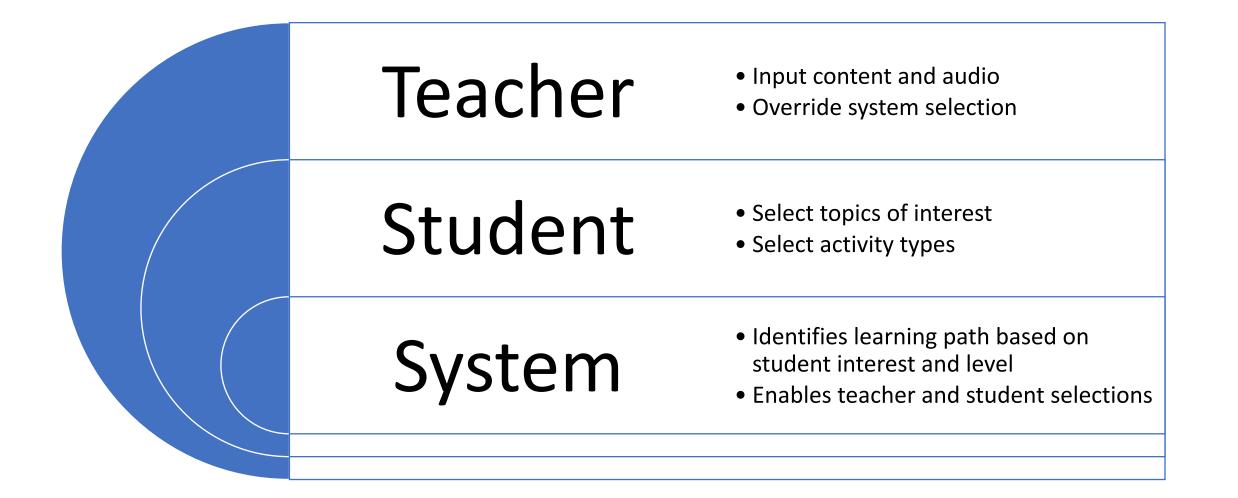


Multi-Modal / Multi-Literacy Approach

Teaches concepts through visual, auditory, reading and writing

- Speech recognition guides students through instruction and provides oral practice
 - Reduce "point and click"
- Cross-curricular readings to develop literacy
- Persuasive, narrative, expository, and descriptive writing activities automatically scored
- Activities to practice visual , audio, and digital literacy

Customized Lessons for Personalization





For more information

Visit us @ www.caimber.com

Email us @ info@caimber.com

For a Moby.Read demo:

https://www.amiread.com/login/demo