MATHEMATICS UNIVERSAL SCREENING TOOLS: CRTI REVIEWED

Provided here are universal screening tools reviewed by the Center on Response to Intervention (CRtI). The tools are presented in alphabetical order and, when available, features for each measure are provided. Technical Characteristics are provided when available. Readers should <u>not</u> interpret the inclusion of a measure in the following table as representing an approved status or an endorsement by the Iowa Department of Education. Additionally, this list is not an exhaustive list of available tools, but rather those provided on the CRtI site. Additional screening tools exist.

These CRtI data are based on a June 2016 review. An additional review was planned for summer of 2017 and involved a transition from the CRtI to National Center of Intensive Instruction (NCII) process and criteria so only tools currently listed here will reviewed during this transition.

<u>Technical Characteristics Descriptors</u>

Below are the descriptors for each of the technical characteristics, as provided by the Center on Response to Intervention (CRtI). More detail related to the classification criteria for each of the three technical characteristics is available on the CRtI rating rubric.

●	Convincing Evidence
◐	Partially Convincing Evidence
○	Unconvincing Evidence

Universal Screening Tool, Publisher		Grades	(I)ndividual, (G)roup	(P)aper, (I)nterview, (W)eb-based	(F)ixed, (A)daptive	Estimated Time[1]	(I)mmediate (H)and-scored or (N)either	Data System?	Perform. Comparisons	Is there a cost?	Progress Monitoring Availability?	Technical Characteristics			CRtI review
												Classification Accuracy	Reliability	Validity	
Acuity Mathematics, McGraw Hill		3-8	G	W	F, A	50	I	Y	Y	Y	N	◐	◐	●	link
AIMSweb, Pearson	Missing Number	K-1	I	P	F	1	H	Y	Y	Y	Y	○	●	●	link
	Number Identification	K-1	I	P	F	1	H	Y	Y	Y	Y	○	●	○	link
	Oral Counting	K-1	I	I	F	1	H	Y	Y	Y	Y	○	○	○	link
	Quantity Discrimination	K-1	I	P	F	1	H	Y	Y	Y	Y	○	●	●	link
	Computation	1-8	I,G	P	F	8	H	Y	Y	Y	Y	◐	◐	○	link
	Concepts and Applications	2-8	I,G	P	F	~9	H	Y	Y	Y	Y	◐	●	○	link
Classsworks Universal Screener, Curriculum Advantage		K-10	I,G	W	F	30	I	Y	Y	Y	Y	◐	●	○	link
Mathematics – Predictive Assessment, Discovery		3-10	I,G	W		40	I	Y	Y	Y	N	●	●	◐	link
FAST, FastBridge Learning	Adaptive Math	K-6	I,G	W	A	~25	I	Y	Y	Y	N	●	●	●	link
	earlyMath Composite[2]	K-1	I	P	F	~7	I	Y	Y	Y	Y	●	●	●	link
Group Math Assessment and Diagnostic Evaluation (G-MADE), Pearson		1-12	I,G	P	F	~70	H	Y	Y	Y	N	◐	●	◐	link

Universal Screening Tool, Publisher	Grades	Administration				(I)mmediate (H)and-scored or (N)either	Data System?	Perform. Comparisons	Is there a cost?	Progress Monitoring Availability?	Technical Characteristics			CRtI review
		(I)ndividual, (G)roup	(P)aper , (I)nterview, (W)eb-based	(F)ixed, (A)daptive	Estimated Time[1]						Classification Accuracy	Reliability	Validity	
i-Ready Mathematics, Curriculum Associates	K-12	I,G	W	A	~45	I	Y	Y	Y	N	●	●	●	link
Measures of Academic Progress (MAP) Primary Grades, NWEA	K-2	I,G	W	A	40	I	Y	Y	Y	N	●	◐	◐	link
Measures of Academic Progress (MAP), NWEA	2-12	I,G	W	A	40	I	Y	Y	Y	N	●	◐	◐	link
mCLASS: Math Amplify	K-3	I,G	P	F	~7	I	Y	Y	Y	Y	○	●	○	link
STAR Math, Renaissance	1-12	I,G	W	A	15	I	Y	Y	Y	Y	●	●	●	link

[1] Administration times are reported by the vendor and approximates. Those indicated with a "~" are the middle of the range provided. For example, if vendor provided 10-20 minutes administration range, ~15 is reported.

[2] Depending on the grade and screening window, FAST the earlyMath Composite is a combination of the following subtests: Composing, Decomposing Grouping and Place Value, Match Quantity, Number Sequence, Numeral Identification and Story Problems.

MATHEMATICS UNIVERSAL SCREENING TOOLS: STATEWIDE SURVEY

Provided here are universal screening tools reported through a statewide survey. These universal screening tools were *not* reviewed by the CRtI, yet were reported to serve as universal screening tools in at least two Iowa districts. Please note that being listed here rather than the previous table is <u>not</u> a statement of lesser merit or value as a universal screening tool, but simply a reflection that the assessment was not submitted to the CRtI during its 2016 review. Also, please note these measures may serve assessment purposes in addition to universal screening and may have the characteristics of universal screening measures to varying degrees. The tools are presented in alphabetical order and, when available, features for each measure are provided. When available, a link is provided to each measures Technical Characteristics, as provided by the developer. Readers should <u>not</u> interpret the inclusion of a measure in the following table as representing an approved status or an endorsement by the Iowa Department of Education. Additionally, this list is not an exhaustive list of available tools, but rather a list of those reported as used through a statewide survey.

Universal Screening Tool, Publisher		Grades	Administration Format			Administration Time[1]	Student Data			Is there a cost?	Progress Monitoring?	Technical Characteristics
			(I)ndividual, (G)roup	(P)aper, (I)nterview, (W)eb-based	(F)ixed, (A)daptive		(I)mmediate, (H)and-scored	Data System?	Perform. Comparisons			
Assessment for Mathematical Understanding, Education Northwest		K-1	I	P,I	F		H	N		N	N	
Boulder Valley Screener, Forefront Math		K-5	I,G	P	F	~13	I	N	Fall	N	N	Technical Information
Delaware Universal. Screening Tool for Number Sense Delaware Mathematics Coalition		K-5	I,G	P	F	~13	I	N		N	N	
DIBELS Math, Dynamic Measurement Group		K-6	I	P	F	~8	H	Y	Y	Note[2]	Y	Technical Information
Early Numeracy Indicators Research Institute on Progress Monitoring (RIPM)	Number Identification	K-1	I	P	F	2	H	N	Y	N	Y	Technical Information
	Quantity Discrimination	K-1	I	P	F	2	H	N	Y	N	Y	
	Missing Number	K-1	I	P	F	2	H	N	Y	N	Y	
	Mixed Numeracy	K-1	I	P	F	2	H	N	Y	N	Y	
easyCBM Houghton Mifflin Harcourt		K-6	I,G	W	F	~25	I	Y	Y	Note[3]	Y	Technical Information

Universal Screening Tool, Publisher		Grades	(I)ndividual, (G)roup	(P)aper, (I)nterview, (W)eb-based	(F)ixed, (A)daptive	Administration Time[1]	(I)mmediate, (H)and-scored	Data System?	Perform. Comparisons	Is there a cost?	Progress Monitoring?	Technical Characteristics
			Administration Format				**Student Data**					
[Monitoring Basic Skills Progress (MBSP)](#) Pro-Ed	Computation	1-6	I,G	P	F	~4	H	Y		Y	Y	[Technical Information](#)
	Concepts and Application	2-6	I,G	P	F	~7	H	Y		Y	Y	[Technical Information](#)
[Number Knowledge Test (NKT)](#), McGraw Hill		K-1	I	P, I	F	~12	I	N		N	N	[Technical Information](#)
[Number Sense Screener](#), Brookes Publishing		K-1	I	P, I	F	~17	I	N	Note[4]	Y	N	[Technical Information](#)
[Math Reasoning Inventory](#), Scholastic		3-8	I	P, I, W	F	~17	I	Y		N		[Technical Information](#)
[Math Inventory](#) Houghton Mifflin Harcourt		K-12	I,G	W	A	40	I	Y	Y	Y	N	[Technical Information](#)
[Ohio Diagnostic Assessment](#), Ohio Department of Education		K-2		P	F		H	N		N		[Technical Information](#)
[IGDIs Early Numeracy](#) Early Learning Labs		PK	I	P,I	F	10	I	Y	Y	Y	Y	[Technical Information](#)

[1]Administration times are reported by the vendor and approximates. Those indicated with a "~" are the middle of the range provided. For example, if vendor provided 10-20 minutes administration range, ~15 is reported.
[2]Currently free
[3]easyCBM has two levels of access and use; one free, one fee-based.
[4]Kdg Fall & Spring, 1st Fall only