

Math Assessment and Support Tools

This resource has been compiled in collaboration with a team of Zone 3 Math Consultants in partnership with the ERLC. This list is not meant to be used as an authorization of the tools or supports included. It is meant to be used as a starting place for schools or districts when looking for information on what math assessment tools or supports are available. As with all resources, teachers and schools must always check for alignment to the curriculum and a fit for their context. For more information contact the math consultant or lead of the school division that is utilizing the tool.

Definitions:

Screener - evaluates the possible presence of a particular problem.

Diagnostic - determine students' individual strengths, weaknesses, knowledge, and skills.

Intervention - activities/teaching strategies intended to address gaps in knowledge/skills that have been identified in assessments.

Progress Monitoring - identifies student's progress toward a predetermined goal.

Adaptive Practice - evaluates what a student knows and presents that student with new practice questions to solve that are just at the edge, or just beyond the edge, of the student's demonstrated knowledge and understanding.

Tool	Type	Grades	Approx. Time	Format	Implementation Considerations	Notes	Utilization	Cost
First Steps in Mathematics	Diagnostic	2-10	Quick	Observation/ paper-pencil	<ul style="list-style-type: none"> Requires 3-4 days of training (contact ERLC for more info) One-on-one administration 	<ul style="list-style-type: none"> Aligned to WNCP Diagnostic based on Big ideas (Key Understandings) in Math learning Provides information on what stage student is in. (not grade leveled, but understanding leveled) 	<ul style="list-style-type: none"> Edmonton Catholic School Division Edmonton Public Schools Grande Yellowhead Public School Division Greater St. Albert Catholic Schools Pembina Hills Public Schools STAR Catholic 	Free online
Mathematics Online Interview <i>Formally called</i> Early Numeracy Interview Growth Points Record Sheet Middle Years Interview	Teacher Diagnostic	K-2 3 - 8	Varies	Verbal and Observation	<ul style="list-style-type: none"> Requires training and kit of resources One-on-one administration VERBAL Can incorporate with the EYE 	<ul style="list-style-type: none"> Not aligned to Alberta Math curriculum- but based on BIG ideas in Math AND Learning Progressions Developed in Australia Scripted questions 	<ul style="list-style-type: none"> Edmonton Catholic School Division Elk Island Public Schools Greater St. Albert Catholic Schools 	Free online

<u>Math Intervention/Programming Instrument (MIPI)</u>	Screening	2-10	Div 1: 35-50 mins Div 2: 50 mins Div 3: 50 mins Div 4: 60 mins	Paper-pencil Digital	Whole group administration	<ul style="list-style-type: none"> ● Intended to be given at the beginning of the year ● Aligned to Alberta Math curriculum ● English and French available ● Developed locally (EPSB) ● Not blue printed or standardized ● Gives a snapshot - 1st level screen ● Provides discussion items and provides teachers with a starting point to set goals 	<ul style="list-style-type: none"> ● Black Gold Regional Schools ● Edmonton Public Schools ● Greater St. Albert Catholic Schools ● Elk Island Catholic Schools ● Elk Island Public Schools ● Edmonton Catholic School Division 	<u>Free</u>
<u>Nelson Leaps and Bounds</u>	Diagnostic Intervention	1-8*	Variable	Paper-pencil	Whole group or individual administration	<ul style="list-style-type: none"> ● <u>Aligned to WNCP</u> ● English and French available ● Levels students using different pathways based on diagnostic ● Student and teacher resources available ● Developed by Nelson in collaboration with Dr. Marian Small 	<ul style="list-style-type: none"> ● Black Gold Regional Schools ● Edmonton Catholic School Division ● Edmonton Public Schools ● Elk Island Public Schools ● Greater St. Albert Catholic Schools ● Fort McMurray Public Schools ● Pembina Hills Public Schools ● St. Albert Public Schools 	<u>Cost</u>
<u>Nelson Pre-Assessments</u>	Screeener	1-6		Gr, 1 - oral Paper/pencil	Whole Group	<ul style="list-style-type: none"> ● Aligned to WNCP 	<ul style="list-style-type: none"> ● Edmonton Public Schools 	<u>Cost</u>
<u>Numeracy NETS</u>	Screeener Diagnostic	3-8	Varies	Paper/pencil	Individual assessments	<ul style="list-style-type: none"> ● Appendices show correlation with WNCP and specific approved Math resources. ● Uncovers students' misconceptions, enhances instructional response 	<ul style="list-style-type: none"> ● Greater St. Albert Catholic Schools ● Parkland School Division 	<u>Cost</u>
<u>Testonline</u>	Screening Progress Monitoring	3-8			Online assessment administration	<ul style="list-style-type: none"> ● Aligned to Alberta Math curriculum ● Standardized ● French and English 	<ul style="list-style-type: none"> ● Grande Yellowhead Public School Division 	\$2/student

						<ul style="list-style-type: none"> • Administered at end of year • Other administrations possible 		
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Adaptive Practice								
Tool	Type	Grades	Approx. Time	Format	Implementation Considerations	Notes	Utilization	Approx. Cost
Dreambox Learning	Screening Progress Monitoring	K-7		Digital	<ul style="list-style-type: none"> • Individual student administration • Internet access required 	<ul style="list-style-type: none"> • Aligned to WNCP http://www.dreambox.com/wncp • Instructional supports included • Developed with Cathy Fosnot 	<ul style="list-style-type: none"> • Parkland School Division • Pembina Hills Public School Public School 	Cost
Mathletics Video	Screening Diagnostic Intervention	K-12	Variable	Digital	<ul style="list-style-type: none"> • Individual or whole group administration • Internet access Required • Ongoing technical support provided 	<ul style="list-style-type: none"> • Aligned to Alberta Math curriculum • Some French materials available • Includes additional instructional resources developed by Dr. Marian Small 	<ul style="list-style-type: none"> • Edmonton Catholic School Division • Edmonton Public Schools • Fort McMurray Public • Grande Yellowhead Public School Division 	Cost
SuccessMaker	Screening Diagnostic Intervention, Progress Monitoring	K-8	Variable Diagnostic 8-10 sessions x 15 mins	Digital	<ul style="list-style-type: none"> • Requires computer access • Licenses can be shared amongst classes/schools 	<ul style="list-style-type: none"> • Aligned to WNCP • Has a companion literacy assessment • Determines grade level of achievement for each strand • Includes interventions and instructional components • Alerts teacher if student is unable to master concept 	<ul style="list-style-type: none"> • Alberta Distance Learning Centre • Greater St. Albert Catholic Schools 	Cost

Clinical Assessments								
Tool	Type	Grades	Approx. Time	Format	Implementation Considerations	Notes	Utilization	Approx. Cost
Feifer Assessment of Mathematics	LEVEL B	K-12	Varies	Paper/pencil	<ul style="list-style-type: none"> Level B training required 	<ul style="list-style-type: none"> Examines the underlying neurodevelopmental processes that support proficient math skills 		Cost
KeyMath3	LEVEL B Clinical Diagnostic	K-12	30-90 mins	Paper/pencil	<ul style="list-style-type: none"> Individual administration Level B training required 	<ul style="list-style-type: none"> Aligned to Alberta Math curriculum Assess in 3 content areas (basic concepts, operations, applications) Standardized 		Cost

Additional Assessments and Information can be found at [Response to Intervention at American Institutes for Research](http://www.rti4success.org/resources/tools-charts) (<http://www.rti4success.org/resources/tools-charts>)

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