

Assessment Toolbox

MATH GRADES PK-2

North American Division
Adventist Education



Adventist Education
A JOURNEY TO EXCELLENCE

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Introduction to Assessment

Assessment provides instruction and learning feedback to teachers and students. Information gained through informal assessments provides opportunities for teachers to make adjustments to the ways in which they deliver instruction. Teachers use assessments both to provide **feedback** to students about their progress and to **guide decisions** about next steps in the learning process, thereby closing the gap between the learner's current and desired states. Popham (2008) defines formative

assessment as “a planned process in which teachers or students use assessment-based evidence to adjust what they are currently doing”. The operative word in this definition is process, in that formative assessment happens throughout the learning, as opposed to summative assessment, which is often a one-time event that occurs at the end of a learning unit and is used to make judgments about student competence.

This toolbox is designed to provide strategies and resources that support assessment practices in math for early childhood through grade 2.

<http://oea.dpi.wi.gov/files/oea/pdf/activity2el-menu.pdf>

This list is a starting point for your discussion on how to balance the assessment system. If you choose to use this menu, keep in mind that your group does not have to make a decision in every box. These are only suggestions. “Other” is always an option.

<http://www.youtube.com/watch?v=rL54bfmZPzY>

Welcome to REAL formative assessment! Measured Progress has created a DVD program that explores how REAL teachers implement REAL formative assessment in their classrooms. This clip documents teachers use of techniques and tools to bring about gains in student learning.

<http://michelledriskell.blogspot.com/2011/09/formative-assessment-in-first-grade.html>

This is a blog of a first grade teacher. She provides a definition of formative assessment, gives some ideas of strategies to use, and provides examples and excerpts from her first grade classroom. The blog also provides the opportunity for dialogue with other teachers regarding the use of assessment.

<http://www.youtube.com/watch?v=B3HRvFsZHoo>

Dylan Wiliam stresses the importance of assessment as a key process for increasing teacher quality whilst having the biggest impact on student outcomes. He looks at some of the popular initiatives that aim to increase student achievement, such as learning styles, and presents research that shows assessment practices have a much greater impact on educational achievement than most other reforms.

<http://www.youtube.com/watch?v=dxAXJEK--qk>

Kim Slusher uses assessment as a barometer of student learning in a multi-age primary classroom at Norton Elementary in Jefferson County.

<http://www.youtube.com/watch?v=rL54bfmZPzY>

the Formative classroom (Middle grade classroom used as example)

<http://www.youtube.com/watch?NR=1&v=jzWraXa2qFO&feature=fvwp>

Summative vs. formative assessment



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Assessment Strategy: Math Interviews

DEFINITION:

It is ideal to assess all of your students to have as much information as possible about the class. some methods of accomplishing this are:

- interviewing students before or after school
- pulling students out during work time
- getting help for interviewing from support staff

STRATEGIES:

<https://mathreasoninginventory.com/home/Practice>

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Interviews. Overview · Watch Interviews · Guidelines for Interviewing · Selecting ...



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Assessment Strategy: Checklists

DEFINITION:

A checklist is a list of skills you wish your students to accomplish! when students accomplish each skill, that one is checked off!

STRATEGIES:

First grade skills checklist - LeapFrog

www.leapfrog.com › Learning Path › Articles

... child ready for first grade? See our checklist of essential developmental skills kids need to succeed. ... Math in action: Telling time, counting money. Shows an ...



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Assessment Strategy: Written Assessments

DEFINITION:**STRATEGIES:**

<http://www.hwtears.com/gss/prek-assessment>

free pre-k math assessments

<http://www.hwtears.com/gss/prek-assessment>

preschool & kindergarten math milestones

<http://www.youtube.com/watch?v=XcbQNPBcNQ4>

kindergarten math assessment

http://www.ehow.com/list_6115576_math-tools-used-kindergarten-math.html

math assessment tools, includes ready-made templates



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Assessment Strategy: Student Demonstrations

DEFINITION:

This when students demonstrates their content skill knowledge to the class or teacher.

STRATEGIES:

<http://www.youtube.com/watch?v=dqguZ2NaUfA>

student demonstrates skills on computer
(must know how to use mouse)

<http://www.youtube.com/watch?v=AXVaaYdBVrA>

assessment committee work math pk-2

<http://www.youtube.com/watch?v=px4JPaH3DFM>

measuring with tag bags



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Assessment Strategy: Models and Drawings

DEFINITION:**STRATEGIES:**

<http://www.ixl.com/math/pre-k>

list of all of the pre-K skills organized into categories.
Click on any link for sample question.



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Assessment Strategy: Graphs

DEFINITION:

Math explained in easy language, puzzles, games, quizzes, worksheets, drawings or diagrams used to record information.

STRATEGIES:

<http://www.education.com/worksheets/preschool+kindergarten+first-grade/graphing-data/?grade=second-grade>

free worksheets and printables

http://www.internet4classrooms.com/skill_builders/graphing_math_first_1st_grade.htm

interactive math skills builders for graphing

<http://www.teachers.cr.k12.de.us/~galgano/1linkstemp.htm>

template plates for graphing

<http://www.superteacherworksheets.com/bar-graphs.html>

a complete set of basic, intermediate, and advanced bar graph worksheets

http://www.youtube.com/watch?v=-cSm_D7MrRI

video: what is a graph?

<http://www.youtube.com/watch?v=gX9mAL8ixzl>

video: explanation of graphs

<http://www.youtube.com/watch?v=gX9mAL8ixzl>

video: learn all about picture graphs

<http://www.youtube.com/watch?v=ldDgqSLOHhE>

learn about pictographs



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Assessment Strategy: Measurement Tools, Clocks, Money

DEFINITION:

Measurement activities can simultaneously teach important everyday skills, strengthen students' knowledge of other important topics in mathematics, and develop measurement concepts and processes that will be formalized and expanded in later years.

STRATEGIES:

<http://www.education.com/worksheets/kindergarten/measurement/>

kindergarten worksheets and printables

<http://illuminations.nctm.org/Search.aspx?view=search&type=ls&gr=Pre-K-2>

resources for teaching math

<http://www.k-5mathteachingresources.com/kindergarten-measurement-and-data.html>

Kindergarten measurement and data

<http://www.youtube.com/watch?v=zxFJJRqV3UY>

video: measuring time

<http://www.youtube.com/watch?v=3hIkRcTmFxY>

video: exploring measurement

http://www.youtube.com/watch?v=M-fe_v-E3fM

video: measurement

<http://www.youtube.com/watch?v=IdDgqSLOHhE>

learn about pictographs



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Assessment Strategy: Art Projects

DEFINITION:

Art is a diverse range of human activities and the products of those activities; which includes the creation of images or objects in fields including painting, sculpture, printmaking, photography, and other visual media.

STRATEGIES:

<http://voices.yahoo.com/12-ways-integrate-math-art-curriculum-7844424.html?cat=4>

12 Ways to Integrate Math in the Art Curriculum

<https://www.ocps.net/cs/ese/support/curriculum/Documents/A%20Checklist%20for%20Everything%20Book.pdf>

assessments/checklists for all subject areas

http://a2zhomeschooling.com/explore/math/math_art_projects_kids/

math art projects for kids

