

Math Methods Performance Assessment

Part One: Tools

- A. Evaluate four hands-on tools that elementary-age students can use to explore mathematical concepts, including the following for each tool:
- one use of the tool to explore mathematical concepts
 - one specific benefit of using the tool to explore mathematical concepts
 - one specific challenge of using the tool to explore mathematical concepts

Tool 1: Base-Ten Blocks

Use/Application of Hands-on Tool 1: Students can use Base-Ten Blocks in learning measurement concepts, such as volume and area, in addition to helping them to visually learn number and place value concepts such as regrouping in addition and subtraction.

Benefit of Hands-on Tool 1: One advantage of using Base-Ten Blocks is that it allows for students to manipulate a physical object as they gain a deeper understanding of addition, subtraction, counting, number sense, place value, patterns, and how to express numbers in various ways.

Challenge of Hands-on Tool 1: One challenge of using Base-Ten Blocks is that it does not allow students to build groups of ten on their own since they are already in rods of ten. The students must already know that 1 ten rod is the same as grabbing 10 (ten).

Tool 2: Attribute Blocks

Use/Application of Hands-on Tool 2: Students can use Attribute Blocks to learn the concepts of sorting, patterning, and how to identify attributes (colors, shapes, and thickness), comparing and contrasting, and classification.

Benefit of Hands-on Tool 2: One advantage of using Attribute Blocks is that students can use them to build their math vocabulary when describing the features of each block (attribute, red, blue, yellow, triangle, rectangle, square, circle, hexagon, large, small, thick, thin) while interacting with them (making patterns, sorting).

Challenge of Hands-on Tool 2: One challenge of using Attribute Blocks is that some students may not have yet mastered the mathematical concept of shape recognition. Students with no prior math exploration with shapes will have difficulty naming each figure in the set, thus causing them to struggle with completing the activity they are working on at that moment.

Tool 3: Rulers

Use/Application of Hands-on Tool 3: Rulers can be used for teaching students how to measure the length of a line, the height, width, and circumference of an object using both inches and centimeters. It also teaches them how to read the number markings as a measurement of a line or object.

Benefit of Hands-on Tool 3: One advantage of using rulers is that students can use them to make sure they have the correct measurement of an object, and they can use the straight edge of the ruler to create precise lines.

Challenge of Hands-on Tool 3: One challenge of using a ruler is that students may not know how to align the ruler when measuring a line or object correctly. They may line up the ruler and the object or line at the "1" mark instead of at the "0" mark, therefore throwing off the line or object's measurement.

Elementary Math Methods

**Mary M. Hatfield, Nancy Tanner
Edwards, Gary G. Bitter**



Elementary Math Methods:

Mathematics Methods for Elementary and Middle School Teachers Mary M. Hatfield, Nancy Tanner Edwards, Gary G. Bitter, 2007-11-02 Always on the cutting edge of mathematics teaching the new Sixth Edition continues to integrate technology with hands on experience and the latest research and standards The CD packaged with this book features videos with guiding questions to analyze real teacher student interaction in the hard to teach math concepts It also includes colored patterns to download that will help readers practice hands on manipulations as they prepare for interactive test items

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