

Free Virtual Manipulative Resources

Below, you will find a list that summarizes the free virtual manipulative sites we are aware of at this writing (June 2021). For each site, we have listed the manipulatives available that are similar to those discussed in these books. In general, these sites also include other resources such as the following:

- Balances
- Modeling Tools (e.g., bar modeling resources)
- Money (in a variety of currencies)
- Number Boards (e.g., 1 – 100 or addition facts)
- Number Frames (e.g., 10 frames)
- Number Lines and/or Number Tracks
- Place Value Tools (e.g., place value mats or cards)
- Probability Tools (e.g., dice or spinners)

As you review the sites, we encourage you to consider which best meet your needs. In addition to looking at the manipulatives and other resources available, you may want to consider attributes such as these:

- Does the site have advertisements?
- Does the site work well with your hardware/software systems?
- What is the size of the workspace on the screen?
- What annotation options are available? Text boxes? A pencil or scribble tool?
- What saving or sharing options are available?
- Can you show or hide labels on various tools?

Didax (<https://www.didax.com/math/virtual-manipulatives.html>)

- Algebra Tiles
- Base Ten Blocks
- Color Tiles
- Fraction Tiles
- Geoboard
- Pattern Blocks
- Place Value Disks
- Prime Factor Tiles
- Rekenrek
- Two-Color Counters
- Unifix Cubes

KP Ten-Frame Tiles (<https://app.kpmathematics.com/>)

- Ten Frame Tiles

Math Learning Center (<https://www.mathlearningcenter.org/resources/apps>)

- Fraction Tools
- Geoboard
- Number Pieces
- Number Rack
- Pattern Shapes

Math Playground (https://www.mathplayground.com/math_manipulatives.html)

- Fraction Bars
- Geoboard
- Math Bars
- Pattern Blocks

Mathies Learning Tools (<https://www.mathies.ca/learningTools.php>)

- Algebra Tiles
- Colour Tiles
- Fraction Strips
- Pattern Blocks+
- Rekenrek
- Relational Rods

Mathigon.org (<https://mathigon.org/polypad>)

- Algebra Tiles
- Fraction Bars
- Fraction Circles
- Number Bars
- Number Tiles
- Polygons
- Rekenrek

Mathsbot (<https://mathsbot.com/#Manipulatives>)

- Algebra Disks
- Algebra Tiles
- Coordinate Pegboard
- Counters
- Cuisenaire Rods
- Dienes Blocks (base ten)
- Fraction Wall
- Geoboard
- Pattern Blocks
- Pentominoes
- Prime Factor Tiles
- Rekenrek
- Tak Tiles
- Tangrams
- Unit Box

Toy Theater (<https://toytheater.com/category/teacher-tools/>)

- Abacus & Rekenrek
- Base Ten Block
- Counters
- Cube
- Fraction Bars & Circles
- Fraction, Decimal, Percentage Strips
- Geoboard
- Pattern Block
- Tangram