

Suggested Math Manipulatives for KCAS

5th Grade Materials

- Fraction bars
- Arrow Cards for place value
- Fraction strips (paper, foldable)
- Cylinders
- Base Ten Blocks
- Graph paper (Graph paper website <http://incompetech.com/graphpaper/>)
- Protractor and/or angle measurers
- Cuisenaire Rods
- Number lines for each student
- Unit cubes for volume
- Solid figures (3-D shapes) for volume
- 2-D Shapes

4th Grade

- Fraction bars
- Arrow Cards for place value
- Fraction strips (paper, foldable)
- Cylinders
- Base Ten Blocks
- Graph paper
- Protractor and/or angle measurers
- Measuring tapes
- Rulers
- Cylinders
- Graph paper
- Protractor
- Cuisenaire Rods
- Mirrors
- “patty” paper- paper between hamburger patties- Parchment paper- use to teach symmetry
- Number lines for each student
- 2-D Shapes

3rd Grade

- Tiles for area models (Cheez-Its work)
- Any type of manipulative they could regroup
- Flashcards or alternative for teaching multiplication and division facts
- Clocks
- Cylinders
- Cuisenaire Rods
- Measuring beakers (metric)
- Geoboards
- Gram scale
- Analog clock to the minute
- Rulers to $\frac{1}{2}$ and $\frac{1}{4}$ inch
- Place value mats
- Containers that show liters (beakers, graduated cylinders)
- Number line for each student
- Fraction strips
- Fraction dice
- calculators

2nd Grade

- Base ten blocks
- Rulers
- Yardsticks
- Meter sticks
- Measuring tapes
- Fraction bars
- Fraction circles (Ellison dies-1/2, 1/3, 1/4)
- Primary graph paper <http://www.superteacherworksheets.com/paper.html#clocks>
- Dollar bills
- Pennies, quarters, dimes, and nickels, dollar coin
- Unifix cubes
- Number lines for each student
- Clocks (digital and analog)
- Attribute blocks
- Geoboards

1st Grade

- Wikki sticks, bendaroos, pipe cleaners, straws (for building shapes in geometry)
- Class number lines to 120
- Base ten blocks units/rods
- Ten frames
- Counters
- Number grid
- Flash cards for fluency
- Dry erase boards
- Unifix cubes
- Paper clips (and other nonstandard units for measurement)
- Clocks for each student
- Geoboards
- Pattern blocks

Kindergarten

- Number line to 100
- Base ten blocks
- Ten frames
- Clay to make 3-D shapes
- Magnetic shapes
- Counters
- Attribute blocks
- Unifix cubes
- Dotted cards (subitizing -to perceive at a glance the number of items presented)
- 2-D and 3-D shapes
- Play-doh/clay
- Straws, sticks, tongue depressors
- Yarn
- Pipe cleaners
- Wikki sticks
- Fine line dry erase markers
- Dice
- Dominoes
- Number lines for each student
- Hundreds charts for each student
- Flash cards