

In response to multiple requests from the field, we've asked instructors who have been teaching math remotely to suggest a list of manipulatives that students can use at home. We've included a wide range of options for different learner levels. You will need to decide which ones are appropriate for your students.

Items already available at home (check with your students)

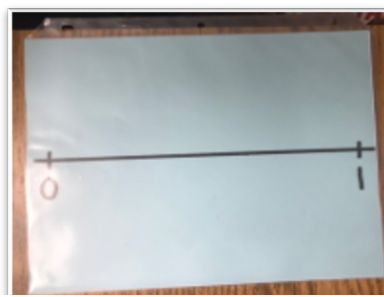
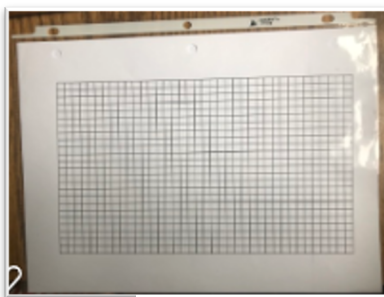
- **Scissors**
- **Scotch tape**
- **Measuring tapes**
- **Scrap paper**
- **Items for counting**
(pennies, buttons)
- **Measuring cups and spoons**
- **Different size "cups"**
- **Different size containers**
(pint, quart, half gallon, gallon, liter)
- **Rulers**
(see below for printable rulers)

To be provided by program

- **String** (enough length to be used for multiple purposes)
- **Paper plates** (for data activities; see *Paper Plate Pie Chart* instructions [here](#))
- **Graph paper** (grid size—for example, 1-cm grid vs. $\frac{1}{4}$ -inch grid—depends on the task and level of students. See next page for printable templates if not buying in a pad or pack.)
- **Homemade whiteboards** (made of clear plastic sleeves with card stock inside to give rigidity; useful for when students want to write and hold up their work to a computer screen or phone camera)



You can use **inserts** with the whiteboards, depending on your needs, such as plain white paper to give the appearance of a whiteboard, grid paper, fraction strips, or a number line, etc.



Photos: Heather Palmer, Middlesex Community College

Don't forget to include **dry erase markers** and **erasers** (pieces of felt work, too) so students can reuse their 'whiteboards'.

Printable Items

For items that will be used as manipulatives, we suggest printing on cardstock to improve durability.

- **Grid and Dot Paper**
<https://incompetech.com/graphpaper/>
- **Rulers** (Be sure to print "Actual Size".)
<https://printable-ruler.net/all-rulers/>
- **Pattern Blocks**
<http://www.raebear.net/goodies/patternblocks/printableblocks/>
- **Protractor** (Be sure to print "Actual Size".)
<https://www.inchcalculator.com/printable-protractor-download/>
- **1-inch Square Tile Graph Paper**
(can be cut into 1-inch tiles for making arrays, etc.)
<https://free-printable-paper.com/1-inch-graph-paper/>
- **Dice** (for statistics as well as number sense activities).
<http://www.clipartbest.com/download?clipart=7TaogbGbc>
- **Fraction Strips printable template**
(or create your own using strips of colored paper)
<https://tinyurl.com/RemoteMathManipulatives>
- **Algebra Tiles**
<https://tinyurl.com/RemoteMathManipulatives>

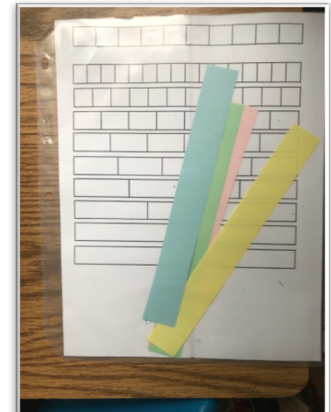


Photo: Heather Palmer,
Middlesex Community College