

Hands-on Learning: Using Math Tools in Afterschool Resources

(These are just a few of the online resources available)

Sites with printable templates for Manipulatives

<http://mason.gmu.edu/~mmankus/Handson/manipulatives.htm>

Provides templates for making your own manipulatives.

<http://math.donnayoung.org/>

Provides templates for fractions, money, clocks and much more.

<http://mathcentral.uregina.ca/RR/database/RR.09.98/loewen2.html>

Provides manipulative templates & activities for upper grades.

Sites with activities using manipulatives

<http://teacher.scholastic.com/max/index.htm>

Scholastic's Max's Math Adventures

Provides activities with supplemental student pages many of which contain manipulatives.

<http://illuminations.nctm.org/>

National Council of Teachers of Mathematics

Includes activities, lessons and web links for mathematics activities using various tools.

<http://www.susancanthy.com/Resources/base10ideas.html>

Includes some ideas for using Base 10 blocks with students.

Sites with Virtual Manipulatives

<http://matti.usu.edu/nlvm/nav/vlibrary.html>

National Library of Math Manipulatives

<http://www.arcytech.org/java>

Base 10 Blocks, Pattern Blocks, Integer Bars/ Cuisenaire Rods, Fraction Bars

<http://standards.nctm.org/document/eexamples/chap4/4.2/>

Geo Board

<http://www.aaa.math.com/students/tools.html>

Provides links to online calculators, especially good for upper grades

<http://www.emints.org/ethemes/resources/S00000511.shtml>

These sites explain how to create tessellations with polygons using rotation and reflection. Also includes information about artist M.C. Escher and examples of his tessellation artwork. There are several interactive games for manipulating patterns online.

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