

July 26-27: 6th Grade Math

Webb DOK PPT
Mathematics Depth
Rich Tasks Exercise

You Go First

NCTM FIGURE THIS [SOLVE]: Are trees wide enough to drive a car through?

<http://figurethis.org/challenges/c15/challenge.htm>

http://figurethis.org/challenges/challenge_index.htm

Algebra:

Algebra Tiles (online version)

<http://mathbits.com/MathBits/AlgebraTiles/AlgebraTilesMathBitsNew07ImpFree.html>

NCTM geology rocks equations:

<http://illuminations.nctm.org/LessonDetail.aspx?id=L786>

One Grain of Rice <http://illuminations.nctm.org/LessonDetail.aspx?id=L713>

NCTM balance scales

NCTM catch of day

NCTM triangle rule

Spaghetti and Meatballs For All

NCTM graphic stories

NCTM from graphs to stories

NCTM from stories to graphs

NCTM building with toothpicks

hallways bedrooms

NCTM building with toothpicks

represent patterns (aka diagram algebra)

NCTM piecing ideas together

NCTM what's the best deal

algebra tiles (one step equations)

order operations game

Geometry/Measurement:

<http://www.geogebra.org/webstart/geogebra.html>

area comparison

coordinate plane

circle sectors

quad sort

measurement olympics

geoboards

NCTM piecing ideas together

isometric dot paper activities

platonic solids (nets)

surface area & volume

donuts

Data/Probability:

NCTM bean counting
dice differences
remove one
snake eyes
spinners
mean, mode, median, range: shoe sizes
are you square?

Number & Operation

PRIMARY KRYPTO <http://illuminations.nctm.org/ActivityDetail.aspx?ID=173>
non-traditional strategies with division
make a dollar game
overdue fines
NCTM a pin for mr. mitchell
prime factorization for LCM/GCF (ladder method)
patterns of division by zero
integers: color chips 6-8 http://nlvm.usu.edu/en/nav/category_g_3_t_1.html

Fractions:

pattern blocks (more than one) (NLVM) (pattern block division) (mixed improper)
pizza problems (pizza pieces) (pizza problems) (NCTM polygon pizza)
tangrams (fractions/decimals/percents) (what's your angle?)
multiplication models:
http://nlvm.usu.edu/en/nav/frames_asid_194_g_3_t_1.html?from=category_g_3_t_1.html
NCTM fractions I, II, III: <http://illuminations.nctm.org/ActivityDetail.aspx?ID=11>
SHODOR:
http://www.shodor.org/interactivate/activities/EquivFractionFinder/?version=1.5.0_11&browser=MSIE&vendor=Sun_Microsystems_Inc