

RtI Math Teacher Resources 3rd - 6th

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1. Number Sense

a. Place Value

- <http://edweb.sdsu.edu/courses/edtec670/Cardboard/Card/N/NumberClub.html> game- could be modified for higher difficulty
- <http://www.coolmath.com/prealgebra/02-decimals/01-decimals-place-value-01.htm> explanation of decimals/values
- <http://www.teachervision.fen.com/decimals/activity/3153.html> teacher lesson
- http://www.harcourtschool.com/glossary/math_advantage/glossary3.html Math Glossary
- <http://www.eduplace.com/math/mathsteps/2/a/index.html> Place Value Lesson
- <http://mathcentral.uregina.ca/RR/database/RR.09.96/mcleod1.html> Place Value Ideas
- <http://www.interventioncentral.org/php/numberfly/numberfly.php> Quantity Discriminations

b. Comparison

c. Estimation

- http://www.vendian.org/envelope/dir2/pinocchio_game.html estimation game

d. Rounding

- http://www.teachervision.fen.com/tv/printables/Math_5_PS_2-12.pdf printable worksheets; site limits access to 3 documents, but PDF can be saved
- <http://www.dositey.com/2008/worksheet/wwround.htm?n1=10&n1dec=1&oper=0&wkstitle=Rounding%20Decimals&picurl=misc/wizardL.gif> printable worksheets- integers
- <http://www.dositey.com/2008/worksheet/wwround.htm?n1=10&n1dec=2&oper=1&wkstitle=Rounding%20to%20Tenths&picurl=misc/wizardL.gif> printable worksheets- tenths

e. Fractions

- <http://illuminations.nctm.org/LessonDetail.aspx?ID=L346> lesson using pattern blocks
- <http://www.coolmath4kids.com/fractions/fractions-01-what-are-they-01.html> explanation of fraction concepts
- <http://www.coolmath4kids.com/fractions/fractions-02-mixed-numbers-01.html> explanation of mixed numbers

f. Decimals

- <http://www.edhelper.com/math/decimals1.htm> Comparing decimals worksheet
- <http://www.arcytech.org/java/b10blocks/description.html> Ideas for using base 10 blocks
http://nlvm.usu.edu/en/nav/frames_asid_264_g_2_t_1.html?from=grade_g_2.html Addition and subtraction using virtual base 10 blocks
- <http://www.coolmath.com/prealgebra/02-decimals/01-decimals-place-value-01.htm> Explanation of decimals/values
- <http://www.coolmath.com/prealgebra/02-decimals/02-decimals-reading-01.htm> Reading decimals

2. Computation

a. Addition and subtraction

i. Basic facts

- <http://gosbr.net/math/> Database of Math Fact Interventions

ii. Whole numbers grade level specific, i.e. regrouping, etc.

- <http://www.coolmath4kids.com/addition/03-addition-lesson-place-values-01.html> Lesson for lining up numbers/place value/addition
- <http://www.coolmath4kids.com/addition/06-addition-lesson-three-digit-numbers-01.html> Lesson for adding 3 digit numbers with regrouping
- <http://www.coolmath4kids.com/subtraction/04-place-values-subtraction-lesson-01.html> Lesson for lining up numbers/place value/subtraction
- <http://www.coolmath4kids.com/subtraction/06-subtraction-lesson-two-digit-numbers-01.html> Lesson for subtracting 2 digit numbers with regrouping
- <http://www.coolmath4kids.com/subtraction/07-subtraction-lesson-three-digit-numbers-01.html> Lesson for subtracting 3 digit numbers with regrouping

iii. Decimals

- <http://www.coolmath.com/prealgebra/02-decimals/06-decimals-adding-01.htm> Adding lesson with practice
- <http://www.coolmath.com/prealgebra/02-decimals/07-decimals-subtracting-01.htm> Subtracting lesson with practice

iv. Fractions

b. Multiplication and division

i. Basic facts

- <http://gosbr.net/math/> Database of Math Fact Interventions

ii. Whole numbers grade level specific, i.e. regrouping, etc.

iii. Decimals

- <http://www.coolmath.com/prealgebra/02-decimals/08-decimals-multiplying-02.htm> Multiplication lesson with practice
- <http://www.coolmath.com/prealgebra/02-decimals/09-decimals-dividing-by-whole-number-01.htm> Dividing decimals by whole numbers
- <http://www.coolmath.com/prealgebra/02-decimals/10-decimals-dividing-by-decimal-01.htm> Dividing decimals by decimals

iv. Fractions

3. Measurement for Area, Perimeter, and Volume, see Geometry

a. Customary

- <http://www.dositey.com/2008/worksheet/length.htm> Printable worksheet with conversion chart
- <http://www.studyzone.org/testprep/math4/d/measure4p.cfm> Choosing Appropriate Measurements

b. Metric

- http://www.coe.uh.edu/archive/science/science_lessons/scienceles3/metric/metric.html Metric system overview and practice
- <http://www.studyzone.org/testprep/math4/d/measure4p.cfm> Choosing Appropriate Measurements

c. Conversion

- <http://www.carbidedepot.com/formulas-measurement.asp> Interactive measurement conversion calculator (both customary and metric)

d. Time

- <http://www.fi.edu/time/Journey/JustInTime/lesson5.html> Elapsed time lesson
- <http://www.fi.edu/time/Journey/JustInTime/worksheet1.html> Printable worksheets for students to draw hands on clock faces
- http://www.harcourtschool.com/activity/elab2002/grade_3/018.html Elapsed Time Lesson

e. Money

4. Geometry

a. One and two-dimensional

- <http://www.mcwn.org/Geometry/Lines.html> Overview with a quiz
- <http://www.math.com/school/subject3/lessons/S3U1L3GL.html> Types of Lines
- <http://webs.morton709.org/elementary/3rd/math/web-based-projects/Transformations/Transformations%20Project%20Web.pdf> Transformations Project Web
- <http://www.beaconlearningcenter.com/WebLessons/AskHannah/beacon009.htm> Explanation of symmetry

b. Three-dimensional

c. Coordinate graphing

d. Area, perimeter, volume

- <http://members.abcteach.com/content/m/miniunitareaperim1.pdf> 6 Perimeter and area worksheets with answer key (need abcteach.com login)

e. Symmetry

- <http://lionsden.tec.selu.edu/~smathis/645/snowflakes.htm> Directions for creating snowflakes
- <http://lionsden.tec.selu.edu/~smathis/645/RegularPolygons.pdf> Regular polygons worksheet
- <http://lionsden.tec.selu.edu/~smathis/645/alpha.pdf> Symmetry in alphabet worksheet

5. Algebra

a. Patterns

- http://abcteach.com/samples/math_worksheets/pattern_recognition_worksheet.pdf Printable worksheet
- http://www.shodor.org/interactivate/activities/PatternGenerator/?version=1.6.0_13&browser=MSIE&vendor=Sun_Microsystems_Inc Demonstrate patterns

b. Missing numbers/equations

c. Algebraic expressions

6. Data Analysis & Probability

a. Mean, median, mode, range

- <http://www.purplemath.com/modules/meanmode.htm> Explanation for calculating MMR

b. Graphs

- <http://illuminations.nctm.org/LessonDetail.aspx?ID=U124> Graphing lessons
- <http://illuminations.nctm.org/LessonDetail.aspx?ID=L539> Graphing lesson including MMR

c. Probability

- <http://www.mathwire.com/games/datagames.html> Data analysis & probability games
- http://www.mathgoodies.com/lessons/vol6/intro_probability.html Explanation and examples
- <http://school.discoveryeducation.com/lessonplans/programs/probability/> Lesson

7. Problem Solving

- http://www.abcteach.com/directory/basics/math/problem_solving/ Word problem bank (must have abcteach.com subscription)
- <http://www.dupagechildrensmuseum.org/aunty/get-started.html> Explanation of strategies
- <http://www.fi.edu/school/math2/index.html> Open-ended math problems
- <http://www.stfx.ca/special/mathproblems/grade6.html> Word problems with hints and answers
- <http://www.pasd.wednet.edu/school/mathwasl/4g.htm>
- http://www.k8accesscenter.org/training_resources/mathprimaryproblemsolving.asp
- http://www.k8accesscenter.org/training_resources/MathPrblSlving_upperelem.asp
- <http://www.eduplace.com/kids/mhm/brain/gr3/index.html> Third grade – story problems
- <http://www.eduplace.com/kids/mhm/brain/gr4/index.html> Fourth grade - story problems
- <http://www.eduplace.com/kids/mhm/brain/gr5/index.html> Fifth grade - story problems
- <http://www.eduplace.com/kids/mhm/brain/gr6/index.html> Sixth grade - story problems

8. Worksheet Makers

- <http://themathworksheetsite.com/> Includes answer keys
- <http://www.mathslice.com/> Left-hand column is printable worksheets; right-hand column is games

9. Other Resources

- http://www.harcourtschool.com/glossary/math_advantage/glossary5.html math glossary
- <http://www.mathslice.com/> Left-hand column is printable worksheets; right-hand column is games
- <http://www.webmath.com/> Explanations of how to solve a variety of math topics
- <http://www.mrjennings.co.uk/teacher/maths/giantcalc1024x768.htm> Giant calculator