

Grade 4 Common Core Strands

Operations and Algebraic Thinking: Video Lessons

- **Use the four operations with whole numbers to solve problems.**

<http://www.amblesideprimary.com/ambleweb/mentalmaths/buttons.html>

<http://www.mathplayground.com/GrandSlamMath2.html>

<http://www.mathplayground.com/WordProblemsWithKatie2.html>

http://www.mathplayground.com/calculator_chaos.html

<http://www.mathplayground.com/thinkingblocks.html>

<http://mrnussbaum.com/bmf/>

- **Gain familiarity with factors and multiples.**

<http://mrnussbaum.com/crossing-math-canyon-2/>

<http://www.mathplayground.com/multiples.html>

- **Generate and analyze patterns.**

<http://mrnussbaum.com/fireflynights/>

<http://mrnussbaum.com/mathepillar/>

http://www.bbc.co.uk/bitesize/ks2/maths/number/mental_maths/play/

<http://pbskids.org/cyberchase/math-games/stop-creature/>

Number and Operations in Base Ten: Video Lessons

- **Generalize place value understanding for multidigit whole numbers.**

http://www.helpingwithmath.com/resources/games/bbc/number_system01.html

<http://mrnussbaum.com/placevaluepirates2/>

- **Use place value understanding and properties of operations to perform multi-digit arithmetic.**

<http://mrnussbaum.com/food-fight-2/>

<http://mrnussbaum.com/maximumcapacity/>

<http://mrnussbaum.com/geniusboxing/>

<http://mrnussbaum.com/derby/>

Number and Operations—Fractions: Video Lessons

- **Extend understanding of fraction equivalence and ordering.**

http://www.mathplayground.com/Fraction_bars.html

http://www.mathplayground.com/ASB_TugTeamFractions.html

http://www.mathplayground.com/Scale_Fractions.html

http://www.mathplayground.com/visual_fractions.html

<http://www.mathplayground.com/Triplets/Triplets.html>

<http://mrnussbaum.com/fractiondolphins/>

<http://mrnussbaum.com/tonyfraction/>

- **Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.**

http://www.mathplayground.com/NewThinkingBlocks/thinking_blocks_fractions.html

- **Understand decimal notation for fractions, and compare decimal fractions.**

<http://mrnussbaum.com/placevaluepirates/>

<http://www.bbc.co.uk/bitesize/ks2/maths/number/decimals/play/popup.shtml>

<http://www.bbc.co.uk/bitesize/ks2/maths/number/percentages/play/popup.shtml>

http://www.mathplayground.com/ASB_Puppy_Pull_Decimals.html

Measurement and Data: Video Lessons

- **Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.**

<http://mrnussbaum.com/soup/>

<http://mrnussbaum.com/soda/>

- **Represent and interpret data.**

http://www.k5learning.com/sites/all/files/sample_lessons/Data%20Analysis%20Lineplots%20L3%20V1%20T1a/Data_Analysis_LinePlots_L3_V1_T1a.swf

http://mrnussbaum.com/grade_2_standardslinegraph/

- **Geometric measurement: understand concepts of angle and measure angles.**

<http://www.mathplayground.com/alienangles.html>

<http://www.mathplayground.com/ProjectTRIG/ProjectTRIGPreloader.html>

<http://mrnussbaum.com/airmadillos-2/>

Geometry: Video Lessons

- **Draw and identify lines and angles, and classify shapes by properties of their lines and angles.**

<http://mrnussbaum.com/shapeinvaders1/>

<http://mrnussbaum.com/airmadillos-2/>