

2nd Grade

Math

<p>Number Sense Our # system is base 10, count to 1,000; ID, compare, represent Numbers can be represented in diff. ways (incl. manipulatives) Ordinals to the 31st Evens/Odds Use 0</p>	<p>Websites http://www.ictgames.com/sharknumbers.html http://pbskids.org/cyberchase/math-games/number-sense/ http://www.abc.net.au/countusin/games/game6.htm Progressively harder math games</p>
<p>Operations Add/Sub w/in 100 ; word probs. Unknowns in all positions Use arrays to add up to 5 rows. Add/sub w/in 1,000 using models. Mentally add/sub 10 or 100 from a given # Relate add/sub/ to length on a # line. Memorize facts to 20. Add up to 4-2 digit #s. Use manip. To solve 2 and 3 digit addition problems w/out regrouping. Write repeated add. as arrays.</p>	<p>Around the world in 80 seconds (any grade; all operations) http://www.missmaggie.org/scholastic/roundtheworld_eng_launcher.html http://www.ictgames.com/funkymum.html Funky Mummy (basic add facts up to 18) http://www.bbc.co.uk/schools/teachers/ks2_activities/maths/addition.shtml double digit http://www.funbrain.com/brain/MathBrain/Games/Title.html?GameName=BumbleNumbers1&Brain=math&Gender=F&Grade=3&Language=en_us&GameNumber=1&Color=undefined&OldPassword=DIG4&Password=DIP4&HardCoded=false&Roadblock=undefined (double digit addition and subtraction) http://www.amblesideprimary.com/ambleweb/mentalmaths/additiontest.html addition practice-3 different levels http://www.hbschool.com/activity/busy_bees/index.html subtraction stories http://counton.org/games/map-numbers/doubletreble/</p>
<p>Place Value Up to 3 digit place value Take apart a # in diff. ways.</p>	<p>http://www.ictgames.com/arrowcards.html Students find numbers on 100s chart in a timed game. http://resources.oswego.org/games/DogBone/gamebone.html Labeling tens and ones groups-1st and 2nd http://www.harcourtschool.com/activity/numbers_to_100_b/ Tutorial about place value-2nd grade http://www.beaconlearningcenter.com/WebLessons/MyPlace/default.htm#page2 Numbers to 1000s game 2nd grade http://www.toonuniversity.com/aol/3m_placv.swf Lots of math games-1-3rd; shark numbers/pool are place value games</p>
<p>Fractions/Decimals Whole/sets can be divided into = shares. Fractions can be used to represent #s that are < or = to a whole Fractions can be represented w/ models. = shares of the same whole can have diff. shapes. Proper notation for halves, thirds, fourths.</p>	<p>http://www.harcourtschool.com/activity/flower_power/ http://www.beaconlearningcenter.com/WebLessons/FabulousFractions/default.htm http://www.harcourtschool.com/activity/bowling_for_fraction/</p>
<p>Money (+.-.x \$ amounts) Making change \$5.00 Value to \$2.00</p>	<p>counting coins http://www.sadlier-oxford.com/math/practice/grk/chapter9/countcoins/009.htm 1st or 2nd</p>

<p>Perimeter and Volume P/A of rectangles and squares by add. P/A of other polygons use manipul. Look for relationships among objects Est and find volume when dimensions are given and using cubes</p>	<p>http://www.harcourtschool.com/activity/tile_the_floor/ area and perimeter practice</p>
<p>Measurement Est./compare lengths and measure w/ standard non-standard. Use add/sub. To measure lengths. Trades-feet/yard, etc. Appropriate tools for ½ in. in. ft. yd., cm. m. lbs and F. Est. length, weight and temp. Determine the area and perimeter of squares and rectangles using manipulatives. Rounding can be helpful when measuring objects. Data Analysis, Probability, Discrete Math Represent data in diff. ways. Parts of data representation, title, etc. Gather, organize, display and interpret data. Use probab. Vocab.</p>	<p>http://www.e-learningforkids.org/math/lesson/baseball-time-grade-2/ several time games for 1st or 2nd http://www.oswego.org/ocsd-web/games/BangOnTime/clockwordres.html moving hands on a clock that you stop when you see the correct time http://www.e-learningforkids.org/math/lesson/hamburger-restaurant-measurement/ all measurement 2nd grade time games-crazy clock http://www.counton.org/games/crazy-clock/index.html some military time start with 2nd http://illuminations.nctm.org/adjustablespinner/ practice changing the size of each section and what that means. http://www.bbc.co.uk/schools/teachers/ks2_activities/maths/probability.shtml Have a play with the amazing random ball-picking machine! How likely is it that a blue or a red ball is picked? http://www.harcourtschool.com/activity/balloon_bonanza/ practice using vocab of most, least likely for 1st or 2nd grade http://studyjams.scholastic.com/studyjams/jams/science/scientific-inquiry/sidentify-outcomes.htm Choosing likelihood of girl and boy puppies. http://www.sadlier-oxford.com/math/practice/gr2/Chapt_3/bargraph/0203.htm http://pbskids.org/cyberchase/math-games/bugs-in-the-system/ http://www.e-learningforkids.org/math/lesson/elephants-plant-data-grade-2/ http://www.harcourtschool.com/activity/lets_graph/ http://www.e-learningforkids.org/math/lesson/carnival-parade-in-rio-chance-data/</p>

Science

<p>Balance and Motion Objects can be stationary and in motion(rotate and roll). Motion happens by direct or indirect forces of push and pull. Indirect forces include magnetism and gravity. Objects use weight and counterweight to achieve stability and balance. Speed, path, and distance an object will travel is affected by design, weight, force and surface.</p>	<p>Tutorial with examples and simple definitions https://web.archive.org/web/20040816000516/http://www.g.eng.cam.ac.uk/mmg/teaching/peterstidwill/interact/resources/parkworldplot/flash/concepts/allaboutforces.htm Adjust Blasto the Cannonball in right direction/speed and weight to land correctly. http://www.lawrencehallofscience.org/kidsite/portfolio/blasto-2/ simple explanation of force and motion-diff. age levels</p>
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	<p>have different videos that model the different kinds of forces. http://www.bbc.co.uk/schools/scienceclips/ages/6_7/forces_movement_whatnext.shtml simple roller coaster designer http://www.eduplace.com/kids/hmsc/activities/simulations/gr4/unitf.html Magnet projects/vocabulary http://www.exo.net/~pauld/activities/magnetism/Garden%20of%20Magnetsmini.html http://galaxy.net/~k12/water/hydrod.shtml http://web.archive.org/web/20111122032520/http://home.interserv.com/~skyblade/wim.htm http://www.exo.net/~pauld/activities/sweden/magneticpushups.html https://web.archive.org/web/20040703100410/http://www.g.eng.cam.ac.uk/mmg/teaching/peterstidwill/interact/resources/parkworldplot/flash/concepts/magneticforces.htm http://kids.nationalgeographic.com/kids/activities/funscience/magnet/ http://www.exploratorium.edu/snacks/magshield/index.html http://www.bbc.co.uk/education/guides/z3g8d2p/revision/1 http://archive.fossweb.com/modules3-6/MagnetismandElectricity/activities/kitchen.html</p>
<p>Insects Great diversity w/in ins. Pop. Insects follow a life cycle(incomp. And complete metamorphosis) Com. Metam-egg, larva, pupa and adult. Common features and basic needs for survival.</p>	<p>http://www.professorgarfield.org/yourfuture/sm_clt.html (living vs. non-living, water, animal life cycles,) http://www.bbc.co.uk/bitesize/ks2/science/living_things/life_cycles/play/ www.bbc.co.uk/schools/scienceclips/ages/5_6/ourselves_whatnext.shtml science concepts broken down by level 3-D Insect webpage 2nd-3rd http://home.comcast.net/~sharov/3d/3dinsect.html Alien profile-insects that came to US different ways-2nd and 3rd http://dnr.wi.gov/topic/ForestHealth/ForestTent.html Bug Hunts-fun website that has students hunting for insects then comparing to what other students around the country found. 2nd grade http://www.lawrencehallofscience.org/kidsite/portfolio/bug-hunt/ http://archive.fossweb.com/modulesK-2/Insects/activities/insecthunt.html Why dead bugs are important? 2nd or 3rd http://web.archive.org/web/20130621123508/http://www.ars.usda.gov/is/kids/insects/story12/nematodes.htm Scholastic bug info. Featuring Ms. Frizzle http://teacher.scholastic.com/activities/bugs/ Insect info. Sheets http://insected.arizona.edu/info.htm http://www.bugfacts.net/insects.php Insect Quest http://zunal.com/introduction.php?w=202935 Butterfly life cycle-2nd http://www.thebutterflysite.com/life-cycle.shtml http://www.kidsdiscover.com/infographics/infographic-life-cycle/</p>

	<p>Matching adult to its young 2nd grade http://www.lawrencehallofscience.org/kidsite/portfolio/find-the-parent/ Parts of a flower and life cycles</p>
<p>Changes Investigate S.L, and G. Sort and describe objects of diff. materials/phys prop. Change is a characteristic of chem. changes and phase changes. Subs. react differently when exposed to heat, cooling. Materials may react w/ each other and change to form new substances.</p>	<p>http://studyjams.scholastic.com/studyjams/jams/science/matter/solids-liquids-gases.htm 2nd or 3rd video of states of matter</p>

Social Studies

<p>Communities Laws are made to protect the rights of the people. Everyone has a civic resp. Nat/State gov. share power. Local/state comm. change over time. Diff. info found on diff maps. Some locales more suited for settlement than others. Relate relationship b/t businesses, laborers, and gov. in an economic system. People from diverse cultures collaborate to find solution in community/state/country/world Goods/services available based on global market. All communities rely on tax dollars to function. Members can make contributions/resist or embrace change.</p>	<p>COMMUNITIES Transportation science and history http://amhistory.si.edu/onthemove/games/game3/index_game3_2.html Build a neighborhood http://pbskids.org/rogers/buildANeighborhood.html http://www.arcademics.com/games/penguin/penguin.html learn and practice states and capitals. http://pbskids.org/arthur/games/connectworld/connectworld.html Arthur's cultural items matching game around the world 2nd</p>
<p>Comparing Communities-Native Americans First inhabitants-Lenape NA adapt to their environ. To meet their needs Diff. tribes lived in NJ and other regions/adapted diff. NA have made contributions to present day life How/why NA changed/moved over time. How do NA live today? Effects of European colonization.</p>	<p>NATIVE AMERICANS Students can click on different regions of map and learn about different tribes. http://www.nmai.si.edu/exhibitions/infinityofnations/culturequest/ Students can click on the parts of the buffalo to find out how the NA used the buffalo. http://www.texasbeyondhistory.net/kids/buffalo.html</p>