

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_engLauncher.html http://www.ictgames.com/funkymum.html Funky Mummy(basic add facts up to 18) http://www.bbc.co.uk/schools/teachers/ks2_activities/math/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 sued 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_fractions/</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/0009.htm 1st or 2nd</p>

<p>Perimeter and Volume</p> <p>P/A of rectangles and squares by add.</p> <p>P/A of other polygons use manipul.</p> <p>Look for relationships among objects</p> <p>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</p> <p>Est./compare lengths and measure w/ standard non-standard.</p> <p>Use add/sub. To measure lengths.</p> <p>Trades-feet/yard, etc.</p> <p>Appropriate tools for $\frac{1}{2}$ in. in. ft. yd., cm. m. lbs and F.</p> <p>Est. length, weight and temp.</p> <p>Determine the area and perimeter of squares and rectangles using manipulatives.</p> <p>Rounding can be helpful when measuring objects.</p> <p>Data Analysis, Probability, Discrete Math</p> <p>Represent data in diff. ways.</p> <p>Parts of data representation, title, etc.</p> <p>Gather, organize, display and interpret data.</p> <p>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_bananza/ 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</p> <p>Objects can be stationary and in motion(rotate and roll).</p> <p>Motion happens by direct or indirect forces of push and pull.</p> <p>Indirect forces include magnetism and gravity.</p> <p>Objects use weight and counterweight to achieve stability and balance.</p> <p>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-q.enq.cam.ac.uk/mmg/teaching/peterstidwill/interact/resources/parkworldplot/flash/concepts/allaboutforces.htm</p> <p>Adjust Blasto the Cannonball in right direction/speed and weight to land correctly. http://www.lawrencehallofscience.org/kidsite/portfolio/blasto-2/</p> <p>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.</p> <p>http://www.bbc.co.uk/schools/scienceclips/ages/6_7/forces_movement_whatnext.shtml</p> <p>simple roller coaster designer</p> <p>http://www.eduplace.com/kids/hmsc/activities/simulations/gr4/unitf.html</p> <p>Magnet projects/vocabulary</p> <p>http://www.exo.net/~pauld/activities/magnetism/Garden%20of%20Magnetsmini.html</p> <p>http://galaxy.net/~k12/water/hydrod.shtml</p> <p>http://web.archive.org/web/20111122032520/http://home.interserv.com/~skyblade/wim.htm</p> <p>http://www.exo.net/~pauld/activities/sweden/magneticpushups.html</p> <p>https://web.archive.org/web/20040703100410/http://www.g.eng.cam.ac.uk/mmg/teaching/peterstidwill/interact/resources/parkworldplot/flash/concepts/magneticforces.htm</p> <p>http://kids.nationalgeographic.com/kids/activities/funscience/magnet/</p> <p>http://www.exploratorium.edu/snacks/magshield/index.html</p> <p>http://www.bbc.co.uk/education/guides/z3q8d2p/revision/1</p> <p>http://archive.fossweb.com/modules3-6/MagnetismandElectricity/activities/kitchen.html</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>http://www.professorgarfield.org/yourfuture/sm_clt.htm! (living vs. non-living, water, animal life cycles,) http://www.bbc.co.uk/bitesize/ks2/science/living_things/life_cycles/play/ http://www.bbc.co.uk/schools/scienceclips/ages/5_6/ourselves_whatnext.shtml</p> <p>science concepts broken down by level</p> <p>3-D Insect webpage 2nd-3rd http://home.comcast.net/~sharov/3d/3dinsect.html</p> <p>Alien profile-insects that came to US different ways-2nd and 3rd http://dnr.wi.gov/topic/ForestHealth/ForestTent.html</p> <p>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</p> <p>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</p> <p>Scholastic bug info. Featuring Ms. Frizzle http://teacher.scholastic.com/activities/bugs/</p> <p>Insect info. Sheets http://insected.arizona.edu/info.htm http://www.bugfacts.net/insects.php</p> <p>Insect Quest http://zunal.com/introduction.php?w=202935</p> <p>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>
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>http://studyjams.scholastic.com/studyjams/jams/science/matter/solids-liquids-gases.htm 2nd or 3rd video of states of matter</p>

Social Studies

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.	COMMUNITIES Transportation science and history http://amhistory.si.edu/onthermove/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 2 nd
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.	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