

Third Grade

Math

<p>Number Sense Use ordinals thru 31st Use ordered pairs to find location on grids and maps Round #s to 10 or 100 Est. sets up to 100 w/out counting ID multi-digit #s as odd/even Real life experiences and manipulatives to construct meaning for: fractions, decimals, measurements, neg. temp on them.</p>	<p>http://www.mathsisfun.com/numbers/index.html 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-number sense</p>
<p>Operations Sum of 3 addends 3 or more digits, + or – to hundreds w/regroup Story probs-all operations Fact families to 100 X=repeat +; div.=repeat – Begin recall mult/div facts div. with/without remainder use calc for basic operations Find products using models,pictures, arrays Mult as repeated add./Div as repeated sub. And as joining and separating = sets. Use dif. Strategies to solve all operat.</p>	<p>2 digit multiplication and division interactive game http://www.bbc.co.uk/bitesize/ks2/maths/number/multiplication_division/play/ Basic multiplication practice-fairshares http://www.e-learningforkids.org/math/lesson/food-market-multiplication/ Lots of math games-must sign in using parent email http://www.mathsisfun.com/ http://www.amblesideprimary.com/ambleweb/mentalmaths/additiontest.html http://www.missmaggie.org/scholastic/roundtheworld_eng_launcher.html Around the world in 80 seconds (any grade; all operations) 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</p>
<p>Place Value Value of 0, values to 6 digits, Fair trades to 1,000's Compare and order #s to 1,000's Use patterns when + and – odd and even #s, when ext. to 3 and 4 digits Standard, expanded and written form</p>	<p>NUMBER SYSTEMS http://www.ictgames.com/abacusInteger.html Counting on an abacus http://qwdir.demon.co.uk/jo/numbers/egypt/index.htm http://bookunitteacher.com/ancient_egypt/calc.htm learning in the ancient number systems http://qwdir.demon.co.uk/jo/numbers/babylon/index.htm learning the ancient Babylonian number systems http://qwdir.demon.co.uk/jo/numbers/china/index.htm Learning the Chinese number system</p>
<p>Money (+.-.x \$ amounts) Making change \$5.00 Value to \$2.00</p>	<p>DAILY MATH CHALLENGES-some are money http://web.archive.org/web/20121027041316/http://www.dupagechildrengmuseum.org/aunty/challenges1204/essay.html Money videos and games 3rd http://pbskids.org/itsmylife/money/index.html http://www.oms.edu/exhibits/moneyville/activities.php</p>
<p>Perimeter and Volume P/A of rectangles and squares by add.</p>	<p>http://www.harcourtschool.com/activity/tile_the_floor/ perimeter and area practice</p>

<p>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>Patterns and Algebra Explore, describe, and record patterns using: Pictures, numbers, letters, add. Tables, 100s chart, calc. functions, nature, literature, art, shapes, tessellations. Record events that change over time in a table, Use patterns to explore and solve: Mult and div situations using a variable Equations as a balance of quantities Prop. Of add/sub/mult/div Dev. Rules by observing patterns and relationships: In data and test the rules Using algebraic concepts and processes to form, describe and verify generalizations based on tables and functions</p>	<p>Math puzzles http://pbskids.org/cyberchase/math-games/ http://4kids.org/games/#.VX8UIEt16p0 http://www.tvokids.com/games/seedball 2nd and up http://www.crickweb.co.uk/ks2numeracy-calculation.html#ncmenu (higher 2nd and 3rd grade math logic puzzles) http://www.akidsheart.com/math/mathgames/untie.swf (higher 2nd and 3rd math logic puzzles)</p>

Science

<p>Planet Earth and the Solar System General rules describing patterns of, make predictions of motion of sun, moon and earth Analyze data, photographs to categorize and relate solar system objects Gravity's effect Understand shadows and phases of moon; why/how they change</p>	<p>http://teacher.scholastic.com/activities/flight/wright/index.htm great info about the Wright bros. http://www.esa.int/esaKIDSen/SEMIGIYEM4E_Liftoff_0.html cartoon about space travel Astronomy and Space Exploration http://nssdc.gsfc.nasa.gov/planetary/mars/mars_crew.html Mission to mars http://www.classzone.com/books/earth_science/terc/content/visualizations/es2701/es2701page01.cfm?chapter_no=27 simulation of distance between planets http://www.lawrencehallofscience.org/kidsite/portfolio/jupiters-moons/ Galileo's study of Jupiter's moons http://www.lawrencehallofscience.org/kidsite/portfolio/unar-calendar/ moon phases http://www.lawrencehallofscience.org/kidsite/portfolio/rip-around-the-earth/ simulate flying around the earth http://spaceplace.nasa.gov/saturn-model/en/ Saturn and its rings http://www.bbc.co.uk/schools/scienceclips/ages/5_6/ourselves_whatnext.shtml science concepts broken down by level Great videos on lots of science topics Mostly for 3rd grade. http://studyjams.scholastic.com/studyjams/jams/science/index.htm Really good videos on Forestry/earth science topics-3rd grade http://www.sites.ext.vt.edu/virtualforest/ http://www.fcps.edu/islandcreekes/ecology/habitat.htm matching game identify groups of animals by what they</p>
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	<p>do, eat, etc.-2nd/3rd http://sciencenetlinks.com/media/filer/2011/10/04/classification.swf unusual habitats-3rd grade http://www.knowitall.org/sclife/ making an animal/camouflage 2nd and 3rd https://web.archive.org/web/20140704021922/http://www.abc.net.au/beasts/fossilfun/camouflage/ biodiversity info-3rd http://www.amnh.org/ology/features/ittakesallkinds/ EARTH Earth structures-3rd http://www.learner.org/interactives/dynamicearth/index.html</p>
<p>Chemical Tests Properties of color, size, texture, shape, state can be observed, measured, changed. Use chemical tests to reveal properties(powders, analyze mixtures in water and classify solids) Techniques for separating mixtures (Filtration and evaporation) Solutions and suspensions Some chemicals can be classified as acids, bases, or neutral substances.</p>	<p>CHEMISTRY Periodic Table http://www.colorado.edu/physics/2000/elements_as_atoms/ptable1.html SCIENCE-materials engineering and inventing. (What material is strongest?) http://www.strangematterexhibit.com/properties.html Gas experiment http://www.melodyshaw.com/files/A_gas_sudsation.pdf Cow belly glue http://www.ars.usda.gov/is/kids/animals/story6/gluehome.htm Toothpaste experiment http://www.coaleducation.org/lessons/wim/11.pdf Plaster experiment https://web.archive.org/web/20131205081828/http://www.acs.org/content/dam/acsorg/education/whatischemistry/scienceforkids/characteristicsofmaterials/buildingplaster-master-or-plaster-disaster.pdf Cleaning penny experiment http://player.discoveryeducation.com/views/hhView.cfm?guidAssetId=4aab2af6-b242-439b-bfbc-15670afe09c5</p>
<p>Human Body Systems Human body systems work independently to meet basic needs(sim/diff to other organisms) Understanding human body will help in understanding other organisms Healthy body will benefit them throughout their lives. Life cycle of humans. Human systems work together and are interdependent to sustain life. What does each system do and how do we keep that system healthy?</p>	<p>Great videos on lots of science topics Mostly for 3rd grade. http://studyjams.scholastic.com/studyjams/jams/science/index.htm http://www.childrensuniversity.manchester.ac.uk/interactives/science/ lots of science activities Great fact sheets for each system http://warriors.warren.k12.il.us/dburke/skeletalsystem.htm Human body game http://www.scienceworld.ca/sites/default/files/flash/games/bodyworks/art_spleen.html Video of a girl w/ a prosthetic arm-the body and electricity http://pbskids.org/dragonflytv/show/bodyelectricity.html Info on what tobacco and drugs does to the body http://pbskids.org/itsmylife/games/bonko_flash.html Video about germs http://pbskids.org/dragonflytv/show/glogerm.html Videos about healthy activities, skeleton and muscles and other systems</p>

	<p>http://www.bbc.co.uk/bitesize/ks2/science/living_things/ Game to show you how your muscles work http://www.scienceworld.ca/sites/default/files/flash/games/bodyworks/muscle_hustle.html Information sheets w/ diagrams about every systems http://training.seer.cancer.gov/anatomy/digestive/regions/mouth.html</p>
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Social Studies

<p>America in the World Think analytically about how past and present interactions b/t people, cultures, environment shape America. Explore unique cultural and geo. Features of diff. communities around the world. Citizens make informed decisions that reflect rights/demo. Values How to be productive citizens in local, national and global. Immigration process Why immigrants come to NJ/USA and difficulties they encounter. Immigrants maintaining traditions while adopting new beliefs Role of stereotyping/prejudice. World is divided into diff. nations</p>	<p>Angel Island immigration site http://aiisf.org/ Students participate in missions such as a 'city of immigrants', for 'crown or colony', etc. http://www.mission-us.org/ Statue of Liberty tour http://www.nps.gov/stli/learn/photosmultimedia/virtualtour.htm Being a stowaway to immigrate-online game http://www.pbs.org/wnet/newyork/laic/episode4/activity2/activity2.html Click on a state and read about its festivals and community events http://www.loc.gov/folklife/roots/ac-home.html http://web.archive.org/web/20150209003731/http://kids.mackinacparks.com/Flash/artifacts.phtml game where you identify artifacts with clues 3rd http://www.arcademics.com/games/penguin/penguin.html learn and practice states and capitals. http://kids.clerk.house.gov/young-learners/lesson.html?intID=32 around the capitol virtual tour http://www.nps.gov/archeology/public/kids/kidsThree.htm info. Relating what archaeologists do, how they learn about history 3rd http://www.bbc.co.uk/history/british/launch_gms_ancient_ob.shtml identify ancient objects, how they were used 3rd http://www.history.org/kids/games/ go to kids section of this website to learn about the colonial period http://www.campsilos.org/mod3/index.shtml learn all about pioneer farming http://www.childrensuniversity.manchester.ac.uk/interactives/history/greece/ learn all about diff. historical periods/peoples starting w Ancient Greece http://www.bbc.co.uk/schools/dynamo/history/stepback.shtml fun website to see what it was like in the past inside a house 2nd or 3rd http://www.schoolsliaison.org.uk/kids/preload.htm read/interact with this website to learn about diff. time periods/peoples 3rd</p>
<p>New Jersey Compare and contrast diff. types of maps Starting with NJ, USA and then world and how this contributes to cultural diffusion and economic</p>	<p>Fact sheet about NJ and other states http://www.teachersfirst.com/share/states/states.cfm?state=nj Great site exclusively for kids</p>

<p>interdependence. Availability of resources based on landforms, climate and weather and its impact on how and where people live and work in NJ and USA. (phys. Char.-Atlantic Ocean, Del. Water Gap, Atlantic Coast, Pine Barrens, Cranberry Bog) Compare the diff. regions of NJ Ideas, inventions, contributions of prominent figures in NJ Role of Change from agricultural to industrial to information age. Role of diff. transp. Systems impacted economy of NJ Folklore/famous historical figures impacted NJ and other regions. ID major cities in NJ, USA and WORLD-tangible/intangible cultural differences</p>	<p>http://www.state.nj.us/state/historykids/NJHistoryKids.htm Scavenger hunt sends you to sites to find answers about NJ http://www.nj.gov/hangout_nj/njkids_scavenger.html</p>
<p>Regions of the US Students use key characteristics(economics, geography, culture) to explore regions of the US. What makes us American after all 5 regions explored, contrasted based on same standards used to explore NJ. Compare ways people choose to use and divide nat. resources. How did they adapt to environment? Why are some areas more suited to settlement? Human interaction across the country effects the environment. How did the American identity evolve over time?</p> <p>Economics and Me Intro. To all vocab with regards to a business. Scarcity, opportunity costs, resources of time, money, natural, are limited; revenue, expenses, profit, producers, consumers, supply and demand. Cooperation and interdependence b/t companies. Entrepreneurs and how they make decisions to optimize profits. Capitalism is an economic system that allows individuals to start and own their own businesses. Steps to running own business: raise capital-production-marketing/sales-final valuation</p>	<p>Latitude/longitude/hemispheres-3rd https://web.archive.org/web/20140122140524/http://olc.spsd.sk.ca/DE/k9mod/Mapskill/mod3f15.swf Where in the world questions and answers 3rd http://sf.factmonster.com/ipka/A0770127.html Printable outline of maps 2nd or 3rd http://www.eduplace.com/ss/maps/ Earth structures-3rd http://www.learner.org/interactives/dynamicearth/index.html GEOGRAPHY http://www.funbrain.com/cgi-bin/wh.cgi?A1=s&A15=usa&A2=0&Submit=Show+Me+The+Maps%21 identifying capitals,, countries or states interactive 3rd http://web.archive.org/web/20100102141243/http://weeklyreader.com/kids/games/geography.asp geography game name the states, countries of diff. continents. A Perfect Pet 3rd http://www.econedlink.org/lessons/index.php?lid=468&type=student Bartering story and activity http://www.econedlink.org/lessons/index.php?lid=289&type=student Learning about taxes 3rd http://www.assembly.ab.ca/visitor/student_zone/Tax Dollar/index.htm</p>
<p>Engineering and Design</p>	
<p>SCIENCE-materials engineering and inventing.</p>	<p>SCIENCE-materials engineering and inventing. (What material is strongest?) http://www.strangematterexhibit.com/properties.html engineering design http://www.lawrencehalloffscience.org/kidsite/portfolio/rollercoaster-builder/ 2nd or 3rd roller coaster fun http://www.pbs.org/wgbh/buildingbig/bridge/basics.html building bridges and tunnels Flight http://teacher.scholastic.com/activities/flight/wright/index.htm</p>

	<p>great info about the Wright bros. http://www.ohio4h.org/flight/ flight projects/experiments 3rd http://www.lawrencehallofscience.org/kidsite/portfolio/car-comparision/ comparing cars with regards to pollution/gas mileage and safety 3rd</p>
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