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Chapter 1 : Newsela | Articles

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Who needs word problems when the news is rich with real-life math problems? Students find math more meaningful and relevant when they can use their math skills to better understand and analyze current events. Below are some practical suggestions for tapping into newspapers and online news sources as an integral part of your math program. Science Daily reports cutting-edge news in the realms of math, science, and technology. Articles archived in Science Dailys Computers and Math News section have a particularly strong mathematical component. Local newspapers often contain items of interest to students. Scholastic News Online pairs kid-friendly news stories with lesson plans, activities, and quizzes. Many of my fourth grade students would have found it difficult to understand the articles I shared if theyd read them independently. Oral summary Sometimes, I just tell students the highlights of an article and write the relevant math information on the board, and then we analyze and discuss the data. I tend to use that approach when the main idea and the math content can be explained very easily, in a few sentences. I use the rest of the page to pose a few math-related questions. With that set-up, students can analyze the news article independently or in small groups. Guided reading I frequently copy the text of online articles into word processing documents along with the Web address, of course so I can adjust the font size and spacing. Some online news sources may archive news for a few years, but not indefinitely, and AP news stories expire quickly. Typically, I print a copy for each student. They read along silently while I read aloud or students read aloud in turns. I ask them to highlight or underline the math they find in the article. We pause to discuss unfamiliar words and concepts. Sometimes we discuss the math as we come to it, and sometimes we "pull the math" after reading the whole article. Student oral report Another option is for a student to take responsibility for presenting a math-related news item to the class. Teacher and student can meet ahead of time to go through the article and agree on key points. As an option, the student also can prepare a few math-related questions to guide whole-class or small-group discussion. A partially told story Withhold some of the math information until students have had a chance to discuss and formulate conjectures, then share "the rest of the story. Include in the binders the math-related questions connected to each article and possibly some samples of student responses. I also like to keep those materials in a news folder on my computer. To promote the home-school connection, its also helpful to post links to the articles and a summary of the discussion on a class Web page. News with a short shelf life would include most sports articles and much political news. In the fall of , my students were fascinated with election polls and news reports; they loved tracking polling trends, comparing polls in different states, and making predictions, and they got a crash course in percentages, pie charts, and line graphs in the process. Each student kept a copy of the articles and related math activities in a "real life math" section of their math binders. Some news items might intrigue students in future years or might be reusable with adaptations. Some dated items also might be worth saving for eventual comparison with updated news reports over time. That news item stirred lively debate in my math classes. What are the odds of this town getting this amount of rain? How much did the rain insurance cost? Did the promotion increase business enough to cover the cost of the insurance? What would the weather actually turn out to be like on that date? Students made predictions about the weather and justified their speculations about the insurance cost. After Memorial Day came and went, I called the dealership to get more information. The amazing thing was that it actually did rain more than an inch in town during the designated hour time block, stirring great excitement at the dealership, but the rain insurance had been taken out on the weather station at the airport, where it rained only half an inch, so no one was able to get refunds on their cars. Although this little item is no longer current, it still could be adapted for future students like this: Can they answer the 5 Ws -- who, what, when, where, why? With that established, as you discuss a news article with your students, ask: How does math help us understand this news? It can be very helpful to ask students to make verbal comparisons or to draw a picture, diagram, table,

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or graph to represent their understanding of the math in the news story. What questions or wonderings do you have about this news or the math in this story? When appropriate, ask extension questions such as: Can we make predictions based on the math in this news story? What is your reaction to this news? Are there other points of view that can be supported by these numbers or related information? Can you connect this news to other information you have learned? An ancient flute that is 35,000 years old was found in a German cave. It was in 12 pieces. It is 8 inches long and has 5 finger holes. Scientists found a 40,000 year old statue among other works of art in the same cave. Can we express in words or pictures what the numbers in this story really mean? Can we connect this math to other knowledge? The age of the artifacts helps us understand more about humans living long ago. The first pyramids of ancient Egypt were built less than 5,000 years ago and the wheel and writing were invented 5,000 years ago; this flute is 6 or 7 times older. Relating these other events and constructing a timeline can help students grasp the antiquity of this flute. What questions or wonderings do you have about this news or the math in this news story? This wondering can lead to a student-driven inquiry with more math connections. The news story on the first flute is an example of "timeless news. As you browse, jot down your own questions or wonderings. You can use or adapt the printable math news response page with nearly any news article. What can you do when the math is too hard? We can use it as a teachable moment for demonstrating the usefulness of such math skills as rounding, estimating, and drawing pictures.

Round and Estimate Use place value concepts and estimation to help students work with large numbers in a news story. I wouldn't expect students to divide 35,000 by 5,000 to find out how many times older the flute is than the invention of the wheel. Instead, if we round to a "friendly number" rounding down to 5,000, instead of rounding up to 6,000, we can compare 35,000 to 5,000.

Draw a Picture Drawing a picture, diagram, or graph also can help students make meaningful comparisons. In our study of election math, I reproduced circles divided into ten sections to help students set up pie graphs of polling data so they could visualize percentages as parts of a whole. My fourth-grade students were able to get a handle on some applied fifth grade math skills in that way. Use a Calculator After making estimates, using a calculator to crunch the exact numbers in news articles is perfectly reasonable; it allows students to focus on the math concepts and applications even when the numbers themselves are daunting. Students begin to make bigger connections. They start to realize that "math is everywhere. They begin to notice more ways that math figures into their daily lives. They begin to notice that math is used in validating every scientific study and they begin to wonder if perhaps math is science or science is math. They become more comfortable manipulating large numbers and stretching their math skills a bit. They develop higher-order thinking skills as they pose questions, synthesize information, and make predictions about the future based on statistics from the recent past. They become empowered mathematical thinkers!

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Chapter 2 : Using Newspapers as Effective Teaching Tools. ERIC Digest

*Using the Newspaper to Teach Math, Science, and Health: Middle Grades & Up (Newschool learning from life) [Marilyn Olson, Alison McKinley] on blog.quintoapp.com *FREE* shipping on qualifying offers. Use these collections of blackline masters with any current newspaper for motivating explorations.*

Great Websites for Kids Great Websites for Kids is a compilation of exemplary websites geared to children from birth to age 12. A collection of over 100 lesson plans, primarily at the elementary level. Find free to use, common core aligned, openly licensed learning and teaching content from around the world. Smithsonian Kids â€” The Smithsonian brings content experts and educators together to strengthen American educationâ€”website Teachnet Tramline Virtual Field Trips Great Activities PE Matters! Free games for Physical Education. Developed by the US Dept. Health Science Education activities for educators and students Return to top Language Arts Book Hive: It is a brand new, free resource featuring the highest quality Common Core-aligned lessons. Determining Reading Levels of Books Provides web links to numerous reading level formulas. Find who lives in Michigan or who has written a book about or set in Michigan. Michigan Center for the Book Poetry and Literature of the Library of Congress Smithsonian Kids â€” The Smithsonian brings content experts and educators together to strengthen American educationâ€”website SpellingCity From the website you will find information to learn from authors, enrich book discussions and have teaching materials correlated to the titles and books you are reading. Math has been answering students questions about math. Contains over 100 math word problems. National Center of Educational Statistics Anti-Bias Lesson Plans and Resources The lesson plans are comprehensive and cover topics normally not included in the regular academic curricula. World of Difference Institute Science history, lessons, activities, and news are covered at these sites. ELC sponsored Environmental Science Teacher Exchange where science teachers "share labs, field studies and investigations, and teaching ideas with your colleagues. Take a trip through this interesting zoo to discover the many worlds of hidden microbes. Mechanics with Animations and Video Film Clips. Physclips won the 12th and last Pirelli International Award for best multimedia science communication of physics in Physics Zone The project is creating a coordinated set of reform tools and servicesbooks, CD-ROMs, on-line resources, and workshopsto help educators work toward science literacy for all students. National Wildlife Federation web site on habitats that holds a wealth of lesson plan ideas. Windows to the Universe Return to top Social Studies 50 States and Capitals Want to know what it was like to live in a foreign country in ancient times? This site will intrigue you! Ben Franklin, that is! Lots of great information for kids, K Canadian Museum of History offers online exhibitions, web modules, games and other activities to support teaching and learning across your curriculum If Trees Could Talk Council for Economic Education helped develop this fun interactive site which focuses on earning, spending, saving, giving, and investing. Map Collection from the University of Texas The University of Texas at Austin maintains a listing of online collections of contemporary and historical maps. Practical Money Skills for Life Making Sense in Social Studies The Story of the Bill of Rights Smithsonian Kids â€” The Smithsonian brings content experts and educators together to strengthen American educationâ€”website Stanford History Education Group A Hidden Dimension of American Racism Teachers are free to use these lessons in their classrooms. World of Ben Franklin Guide to the Individualized Education Program Law and Special Education website pertaining to this book by author, Mitchell L. National Association for Gifted Children Global Kids is a premier non-profit educational organization for global learning and youth development. There are activities for word processing, spreadsheets and graphing, powerpoint presentations, graphic arts, multimedia, internet research and more. Based on the U. International Society for Technology in Education

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Chapter 3 : Lesson Plan Websites - Curriculum Materials Library - Grand Valley State University

Newschool: Using The Newspaper To Teach Math, Science, And Health by Dale Seymour Publications Secondary Use these collections of blackline masters with any current newspaper for motivating explorations.

Advice and suggestions on using newspapers in the English classroom. There has been much use and abuse of newspapers in the ELT profession. This article takes a fresh look at newspapers and suggests what to do, and what to perhaps AVOID doing. Why do so many teachers like using newspapers? Well, to start with, newspapers are much more current than coursebooks. There is also a lot of information in newspapers which make them an excellent springboard for lessons. Finally, there are lots of different kinds of texts in newspapers narratives, stories, letters, advertisements, reports. So what do teachers do with newspapers? One of the problems with newspapers is that they are often used as an up-to-date coursebook activity. The teacher applies the same pedagogical principles and exercises that are in the coursebook. Two major problems tend to emerge from this approach: It can be extremely time-consuming for teachers It is not necessarily interesting for learners If you are going to use a newspaper, the task itself should be authentic wherever possible, not merely the material. One aim of reading newspapers should be to encourage their reading outside the classroom as well. If you TEFLise a text too much, you run the risk of killing the enjoyment from it. Read them and decide for yourself whether you agree or not. Then perhaps you can try some of the ideas we include that follow. Use English language newspapers produced for the local community if you are teaching in a country where English is not an official language. Many large cities will have a newspaper in English. The topics within these papers are likely to have more of an impact on the learners than topics that are specific to the British or American press. Allow learners to select an article that interests them, work on it and report back to other learners. Be clear on aims. Is it reading or speaking you want to practice? Get learners to read outside class as much as possible. Make your tasks as authentic as the material. Think about what people do when they read newspapers in their own language. Help learners to become better learners. Reading is a great way of acquiring language. If you can get your learners to regularly dip into English newspapers then their reading skills, writing skills and vocabulary will improve. Talk about reading and comprehension of English texts with your learners as well, and share strategies that they use when reading. How often do they use a dictionary for example? At the end of a course, do they feel they are reading faster or better? Make a song and dance about teaching words like headline, editorial, column, leader. Is it that useful to learners? Assume learners are interested in British, American, Canadian or Australian culture, particularly tabloid gossip. The British tabloids, for example, are a culturally specific type of newspaper and are not universal. Dwell on comparative style and discourse features of tabloid papers versus broadsheets. These are often either obvious or of interest only to journalists and media students. Assume what you find interesting in a newspaper will interest your learners. Spend ages with tippex blanking out words if you want to do this type of exercise get your learners to white out words themselves and test each other. Set simple tasks for lower level learners with a very difficult piece of text, e. Find three numbers and two countries in this 3 column article on the Middle East. Ideas on how to use newspapers The following are a list of ideas on how to use a newspaper authentically in the classroom. Of course, old habits can die hard, so we have included some other, TEFL classroom type activities that we like as well. Letter to the editor Material: A series of recent newspapers in English Direct learners to the letters to the editors page of the newspaper. Feedback on this as a class. There is often one or more letters in the letter to the editor section that can spark discussion or a controversy. Now ask learners to write their own letter to the editor. They can respond to one of the letters on the page, or they can write about a recent news item. They must write between 25 and 75 words. When they have finished, ask them to compare letters with a partner and try to peer correct any big mistakes. Then post the letters to the editor around the class. If someone responded to an earlier letter then they should copy and cut out the original letter to which they are responding. Paper and pens, Copies of Notes and Queries section of the Guardian newspaper optional Some

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newspapers, like The Guardian Weekly for example, have a section where readers write questions and other readers answer them. Here is an example: Set up a Q and A board in your classroom. Every week ask 3 or 4 learners to submit a question for the board. You can set a theme e. Check the questions for accuracy and post them up. During the week ask other learners to look at the questions as they arrive in class, just before the end of class, if they finish early and try write a response to one of them. They should post their answers under the relevant question. For more typical TEFL type activities try the following: Brief News Items In some newspapers, there is a news summary section consisting of many short news items one paragraph each. Give each pair of learners one of these news items and ask them to write a headline for it on a separate slip of paper. Collect all the stories and the headlines. Post them on the board or put them on a table and ask learners to match the stories and the headlines. Lies, damn lies Ask learners to choose a short item of news that they find interesting and rewrite it, changing some of the details. Have learners exchange news items with a partner and see if they can spot the lies. Put the learners in pairs. Demonstrate the activity by holding up a picture and doing the following: Describe what is in the picture there isâ€¦ there areâ€¦ a man is talkingâ€¦ two women are walkingâ€¦. Speculate about what the news story could be it could beâ€¦ it must beâ€¦ he might beâ€¦ Ask learners to do the same with their picture in pairs. As a follow up they could write the caption for the photo on a separate piece of paper. Collect the captions and photos. Redistribute them to the learners, who now have to find the photo to match the caption. Newspapers as a prompt Material: Just as you would show a picture of something to prompt discussion, do the same with a newspaper article. Learners will be able to skim an article much quicker in their own language, especially at lower levels. If it is an issue that is local and therefore unlikely to be covered in an English newspaper, then all the more reason to do so. A variation of this would be to ask the learner to read something from the newspaper in their own language and explain it to you in English of course this works best in small classes, or one to one classes. Newspaper as a prop Material: A newspaper any language You can use a newspaper in class without learners having to read it at all. For some role play speaking activities give out props. For fidgety learners, having something to hold while they are speaking can help! For example, role play a conversation between two people over a coffee in the morning. To help them get started, give them the following options to start a conversation: B â€” What is it? A â€” This is an outrage. Listen to thisâ€¦ A â€” Are you listening to me? B reading a newspaper â€” Hmmm? Roleplay the news Choose an interesting article or story from the newspaper and make enough copies for every pair of learners. Ask learners to first read the newspaper and then improvise a short role play. Role plays from newspapers are often conducted one of two ways: English language newspapers Distribute the newspapers, one for each group of two or three learners. Tell them they have a time limit with which to skim through the newspaper. When the time limit is up, ask two groups to get together and report to each other everything they remember that is in the news. Do feedback as a whole group. This is a combined reading and speaking activity, although the time limit forces learners to use the reading skill of skimming. Newspaper show and tell 2. English language newspapers, enough so that each learner has one or a section of one Give each learner a newspaper and tell them that for homework, you would like them to take the newspaper home, choose an article and prepare a report on it to classmates.

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Chapter 4 : Science News for Students | News and feature articles from all fields of science

Science Daily reports cutting-edge news in the realms of math, science, and technology. Articles archived in Science Dailys Computers and Math News section have a particularly strong mathematical component.

These PK lesson plan ideas on emotions, expressions, and reactions yield altruistic activity in various subject areas and grades Subjects: Here is a list of PK lesson plan ideas on emotions, expressions and reactions that are appropriate to various subject areas, modifiable by grade. Please be sure that these ideas fit within school and district policies before continuing. Write category labels on the board in columns – have a column for family, friends, various professions, community members, etc. Write student ideas under each label. Have students take out daily journal with prompt being the same: Choose one thing from the board, go help someone with it, and keep what you did a secret. Would you do this again? What did the person who you helped do when you helped them? How did that make you feel? How can you make someone happy? Ask for more details such as adding a drawing, a feeling word, the idea from the board and how it made the person feel, how it made the student feel who helped, and what they could do next time they helped someone. High school students can do this activity too without the brainstorming part. Current Events Discussion Activity: Discuss the expressions and feeling words used in various customs around the world and in different regions and countries. Have students develop appropriate cultural skits based on these customs, act them out when appropriate, and discuss their impact appropriate for history, geography, and other classes. Have students solve math problems and use the answer for a positive good Positive Action Bingo Activity 1: Choose how many problems to give each student, i. Create a list of math problems or select them from the class book young kids: Create or find the answer key for those problems. Make a bingo grid with the number of squares needed. For this example, you would need squares for 20 students at 5 problems each. Put one answer from your answer key in each square. Make up age-appropriate actions things to do to help other for each number and place one action statement with each of the numbers. Get permission from building principal before planning begins! Limit positive actions to accomplishable tasks around the classroom or school. Give the class a word problem on Mondays and a goal to raise the amount of change equal to the answer that week for a specific charity. Put money in class collection jar and give to charity at the end of the month. Add the number of legs on a cow, chicken, human, spider, and octopus. Have them take the total number of legs and try to collect that number of dimes, pennies, or nickels that week, drop the coins in the jar, and donate the money in a manner required by the school and the charity you are donating to. You can have them write the answer in the correct format, identify each coin by name and value, count with teacher or alone or in groups. They then collect the amount equal to the answer for each person or a pair of students, bring in the amount, drop into jar etc. A student can write the value of each coin on board and the class can total the amount or individuals can find the total on a piece of paper, holding up their answer for the teacher. Store the donation jar in a safe place during and after each class meeting. Document the totals each time in a small notebook and add up the final amount or have class help you do so by making it another word problem for them to solve. Science Activities to Encourage Positive Actions: Demonstrate how chemical reactions happen in labs and explain how chemical reactions also happen in cooking, in the environment, at home, etc. Show a film on how recycling works. Then have students do something positive related to the lesson that will cause a positive reaction. Talk about recycling and start recycling bin in classroom for kids to deposit things into. Make sure they understand the process and what can be recycled etc. Plan something small and similar the students can do for their community such as: PE students create video tapes on a subject area they are studying and give it to a health education center in the community such as: The project, once graded, is submitted to a health education center, other health organization. The teacher could assign a project where students are to change one bad health habit into a good one age appropriate of course and document the progress and how they accomplished it. Each time a person passes a fitness test, that student could be rewarded with a healthy treat they like. They can choose it

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from healthy cafeteria choices for free or they could get a free lunch with school permission. If the number is good, they get a box of crayons with which they can draw a picture card greeting for someone. The cards are distributed at the end of the month to the people the child chooses. They can start collecting nutritional information from packages and then do internet research. Computers and Internet related Positive Action Ideas: Use computers and the Internet to do research for any of the above ideas. Discuss ways to volunteer: Ways to locate volunteer activities online Ways to check to see if the charity is legitimate before donating or signing up to help Discuss strategies and ideas that allow students to do volunteer projects on computers or online to help others use computers, the Internet, etc.

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Chapter 5 : Awesome Lesson Ideas to Integrate Science Across the Curriculum | TeachHUB

We all know that Science and Math are easy to teach together, but did you know that Science can be creatively woven into other subject areas? Science can be integrated into English Language Arts, The Arts, Health & Physical Education and Social Studies to create engaging lessons and activities that your students will just love!

Using Newspapers as Effective Teaching Tools. Use of the mass media as a teaching instrument in the classroom has increased considerably at all grade levels in the past few years. The Journal of Reading carries a regular series--"Use the News"--on integrating the reading of newspapers into classroom activities. The newspaper is the most widely used of the media, the direct result of a national campaign by publishers, known as "Newspapers in Education" NIE. This initiative encourages the use of newspapers as an educational tool both to complement and supplement traditional classroom texts and resource materials Newton, At the present time, about newspapers in the United States and Canada participate in the NIE program, which involves approximately three million students, 90, teachers, and 16, schools each year. Before the advent of NIE, newspapers tended to be used only by secondary school social studies teachers in two-week units or for Friday current events sessions. Now, however, newspapers are used throughout the school year in every area of the curriculum Kossack, The success of this broad initiative is evident in programs such as "Newspapers Are for Kids, Too! It contains creative ideas to help children improve reading, writing, social studies, math, and science skills. It can easily be modified for classroom use in the elementary grades Hermann, Hamrick designed a page activity booklet that is organized by sections of the newspaper and can be adapted to most grade levels. It can be used to teach basic skills in a variety of subject areas, including language arts, reading, mathematics, social studies, and science. The activity sheets allow students to use the different newspaper sections to locate, categorize, and sequence details, and to distinguish fact from opinion. The activity sheet also helps the students to locate main ideas, to form sentences, to find facts, to practice critical thinking skills, to solve math problems, to write creatively, and to comprehend better. Other teachers have developed classroom materials using the newspaper for more specialized instructional purposes. For example, Yeaton and Braeckel created a series of model lessons for grades that demonstrate the use of the newspaper to study the United States Constitution and the Bill of Rights. First, the lessons contain step-by-step procedures and sample questions to show how each specific part of the news-paper can be used in a lesson. Then, sample lessons take children on a journey back to the historical time when the Constitution was written. Numerous interesting, practical activities are suggested within the lesson plans. This course employs the newspaper as a foundation for law-related courses. Model lessons are delineated for each part of the newspaper, as well as in five law-related areas: A sample lesson in the Diamond and Riekes course deals with developing critical thinking skills by resolving problems described in newspaper columns--a "Dear Abby" column, in one case. After each student has read the column in question, the teacher divides the class into groups, and each group discusses the problem and determines some resolution following a decision-making procedure previously outlined in the class. After each group presents the reasons for its decision to the entire class, a general discussion is held on the problem and a variety of possible solutions are considered. Another lesson revolves around the concept of juvenile law. Following a discussion of what juvenile law is and why there are separate laws for juveniles, the students read a letter to the editor dealing with a serious crime committed by a juvenile. Schwartz and Bromberg have devised a newspaper course for older students that helps prepare them for effective citizenship in an interdependent world, providing instruction in global concepts such as economic interdependence, the migrations of people, environmental independence, cultural diffusion, the communication revolution, and cultural diversity. The emphasis of the course is on reading, writing, and reasoning ability; and it requires students to classify and organize materials, to identify cause and effect, and to make judgments using sound reasoning. The practical classroom activities help students 1 define consumer education terms and distinguish between wants and needs; 2 explain why laws are necessary for consumer and

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seller protection and understand the concept of consumer responsibility; 3 define consumer-related terms; 4 create a classroom newsletter to reflect consumer knowledge; 5 recognize and explain different advertising appeals; and 6 explain the intent of the Pure Food and Drug Act and the work of the Federal Trade Commission. A series of instructional ideas developed by Dianna also focus on teaching intermediate and junior high students to respond critically to advertising. An outline defines 16 advertising techniques including eye appeal, youth appeal, snob appeal, celebrity endorsement, and expert endorsement ; and a list of activities which help students realize the effects of advertising, create their own ads, and evaluate television and radio commercials as well as those in print. Fenholt provides a series of activities that use the newspaper as a learning resource to develop both reading and life skills. Her contention is that regular elementary school reading materials fail to motivate readers at the adult level and are also embarrassing for adults to use. The practical activities include those designed to promote an understanding of coupons, want ads, news stories, and maps and those designed to build vocabulary. One exercise called "Decode the Ads" deals with deciphering abbreviations commonly used in classified advertisements. A unit on news stories uses questioning techniques to elicit information on what happens in the story. An exercise that uses weather maps asks the student to begin by putting a mark on the general location in which he or she lives. It then asks the student to find newspaper stories about local, state, national, and international news. Hunter and McNearney have designed a series of twelve lessons which use the newspaper in an adult basic education curriculum. Each lesson focuses on a particular letter of the alphabet and furnishes a list of vocabulary needed for the lesson, extensive hints on how to teach it, and suggested activities. Chandler reports that individual newspapers have also developed their own programs for adult literacy. The Tulsa World, for example, has introduced a program called "Read Up," which combines use of the daily newspaper with a telephone hotline to provide tutoring help for adult illiterates. A group of prison inmates served as a test group for this program. The inmates were tested for reading ability before beginning the twelve-week program and again at its conclusion. Results indicated substantial gains in vocabulary, comprehension, and reading skills--one inmate advanced by two grade levels. Among other groups that can benefit from using the newspaper in the classroom are learning disabled students. Like adult education students, they often "experience frustration and failure with traditional approaches to content area instruction. She advocates using teaching strategies that target specific learning skills in reading or language arts, and even in mathematics. This sampling of the ERIC database indicates that in the development of readers at all levels, the newspaper can be a versatile tool. Diamond, Sandra, and Riekes, Linda. How to recognize advertising appeals," 6pp. Your key to better living. Using the newspaper in adult education classes," A newspaper in education handbook for parents [and] Eddy Torial brings big news for small people fun activities with the newspaper for kids ," Resources for reading," Journal of Reading, 30 6 March , pp. American Newspaper Publishers Association Foundation, New readers for newspapers. Schwartz, Donald, and Bromberg, Lloyd. Using the newspaper to discover how the Constitution and Bill of Rights work," Further, this site is using a privately owned and located server. This is NOT a government sponsored or government sanctioned site.

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Chapter 6 : Teachers' workload | Education | The Guardian

Using the Newspaper to Teach Math, Science, and Health: Middle Grades & Up (Newsschool learning from life) by Marilyn Olson () Paperback - Be the first to review this item See all 2 formats and editions Hide other formats and editions.

Messenger Science education has been in the spotlight after federal Education Minister Christopher Pyne recently proposed to make science and maths education compulsory through to year 10. While this is welcome news, such a proposal needs to include long-term plans for improving the status of science in primary schools and ensuring teachers have the requisite support. Here we outline some of the challenges faced as the new science curriculum is implemented across the country. Every state and territory is implementing the curriculum in their own way. This is most noticeable in NSW. Primary Connections “one size does not fit all” Primary Connections is a program developed to support the teaching of the Australian science curriculum. Schmidt even used some of his Nobel Prize money to support it. Primary Connections does provide a wealth of ideas, activities, background knowledge and safety considerations. However, it also has several issues. While Primary Connections is free to all schools via the online platform Scootle, many schools are still spending money to get it via the Primary Connections website, to which the Australian Academy of Science website points all those interested. Primary Connections is essentially just a bunch of PDFs, which is a long way from an inspiring instructive for teachers to get kids interested in science. Many schools are also implementing Primary Connections in its entirety, which might not be consistent with their state or territory requirements. This will not allow for a personalised journey into scientific inquiry. In some states, relying solely on Primary Connections would make a school non-compliant with the requirements of the state syllabus. For example, Primary Connections does not cater for the technology knowledge and skills in the NSW syllabus. Most lack the training and experience to teach science, and a deep understanding of the subject and experimentation. Many feel under-confident in science. So, increasingly, teachers will not have studied science at upper secondary school or university. There are also issues in secondary schools. One in five teachers in science classes teaches out of their area of specialisation. The introduction of the new curriculum adds to the challenges teachers face. It may lead some to cling onto any resource they find “even if it does not cover all of the curriculum needs. Time demands on primary schools When primary teachers face disruptions due to impromptu assemblies, excursions reported as causing serious disruption in Australian schools in particular and extra-curricular activities, they have to choose what to chop from their teaching. This has been demonstrated to impact most on subjects that the teachers themselves are least comfortable with. This is traditionally mathematics, where teachers are under-confident and often have limited content knowledge. Thus, despite or perhaps because of the new emphasis on science, science is at risk of being the new sacrificial lamb of choice. There is substantial variation in the time devoted to science across states and schools. Primary school science teaching survey, Author provided Specialist teachers an unlikely dream Ian Chubb recently wrote about aspiring to something magnificent with science in Australia. Every primary school ought to have a science teacher with continually updated knowledge. This is a noble dream. However, it also raises several issues. First, there are enough problems recruiting specialist science teachers into secondary, let alone primary schools. And what happens to those students already in school during the hiatus to train up specialist primary science teachers? Second, in a large primary school, only one science specialist would not be enough. They would not be able to get to every class for the recommended curriculum time. Teaching science, as with any subject, is the responsibility of all primary teachers. With science being somewhat neglected historically in pre-service training, how are we going to train up all of the incumbents? There are some wonderful primary teachers out there who openly admit they need help with teaching science. However, national, state and school structures currently conspire to make this more difficult and less enjoyable than it should be. To benefit the national economy, we need to raise the profile of science and develop a

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long-term plan to nurture it in schools and industry. Educational attainment in science is linked to national economic growth and competitiveness. Central to this is the need to support teachers in schools, because, in the words of Ian Chubb:

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Chapter 7 : Physical Education In Schools: An Afterthought, But Just As Important As Math Or Science

Nothing teaches like the daily paper. These 54 hands-on activities, structured around topics such as money management, food and nutrition, and health and safety, have students use particular sections of local newspapers to locate and apply information.

E-mail I was 15 years old, staring down at an algebra test I had gotten back moments earlier. It was covered in red marks, telling me that I had failed to correctly utilize the quadratic formula, and that my calculator-less computational skills were not up to par. I was devastated and embarrassed that I had failed so miserably at something that was expected of me. Thankfully I made a full recovery, and the best part is that after high school, I never had to look at another complicated math problem again. Neither is reciting the history of the antebellum south, or memorizing a long list of amino acids. For some people, yes, but not all. All of us do, however, have a very real need for an education in health and fitness. Whether one is a brain surgeon, musician, or financial analyst, they have a body to take care of. The obesity epidemic in the U. The most harrowing part is that many of these people are children – childhood obesity has more than doubled in the last 30 years, and obesity in adolescents has quadrupled. Most of the time children are not going to fast food restaurants and buying themselves food, which means that their condition is a result of their environment, their parenting, and their education. Children spend the majority of their day in school, and it has an undeniable effect on their health. In terms of physical education, the benefits have been demonstrated many times over. In perhaps the most obvious advantage, longer phys ed classes have been shown to reduce the likelihood that a young child will become obese. Not only do the classes give kids a workout during the day, but they expose them to activities and sports that may spark an interest in the child. The benefits continue even into the long term. Tsippora Shainhouse, a board-certified pediatrician and dermatologist, and contributor to the Los Angeles Pediatric Society Newsletter, told Medical Daily in an email. Often called a waste of time by more academically oriented students and parents, P. Research shows that children who exercise actually get better grades in school, and one study found that kids getting cardiorespiratory exercise had bigger hippocampi, the brain structure associated with both short and long-term memory. Even other teachers should be grateful kids are getting to the gym during the day, according to Harold Kohl, a professor of epidemiology and kinesiology at the University of Texas. An Afterthought, Not A Priority As I mentioned, many of the subjects taught in schools become irrelevant to kids later in life. Currently, there are no federal regulations addressing physical education in schools. The No Child Left Behind Act addressed standardized testing for academic disciplines, and the only thing it really ended up leaving behind was fitness education. As a result, schools have inadequate programs, and some have none at all. In states that allow schools to opt out of physical education, the class becomes optional in the eyes of kids, leading to health and fitness being seen as optional as well. She believes phys ed should be graded based on participation, skill level, and written tests, just like everything else. If the same mentality were applied to phys ed, kids would be forced to actually learn about their health and fitness, rather than just go through the motions.

Chapter 8 : Five challenges for science in Australian primary schools

It can be used to teach basic skills in a variety of subject areas, including language arts, reading, mathematics, social studies, and science. The activity sheets allow students to use the different newspaper sections to locate, categorize, and sequence details, and to distinguish fact from opinion.

Teaching Strategies to Incorporate Kindness How to stress and teach kindness. One of the most powerful strategies that we have ever learned as teachers is taking a cross-curricular approach in planning lessons and units for the school year, as we are able to incorporate curriculum expectations from various subject areas to create an engaging activity. By developing cross-curricular activities that are both fun and motivating, teachers can easily integrate science into different subject areas—it only requires a bit of planning and creativity! We all know that Science and Math are easy to teach together, but did you know that Science can be creatively woven into other subject areas? Here are some easy ways to integrate science across the curriculum. Teachers can begin by sharing science poems with their students. There are so many excellent resources available. Some great examples are: This lesson is a great way to incorporate media literacy into your science lessons and vice versa! The Last Rainforest , which discusses how the rainforest is being destroyed and various animals and characters are losing their homes and natural habitat. Students can write letters, journals, narratives, poems, or newspaper articles as one of the movie characters. Organizing Science Info Give your students a particular topic and have them use Venn Diagrams, T-Charts or other graphic organizers to compare and contrast the main ideas. This activity can then be extended if students prepare a written response, deliver a speech or participate in a classroom debate. In the past, our students have taken part in a classroom debate where they act as characters determining whether a deposit should be mined in a fictional town. It is lots of fun and students really take their roles seriously! Teach the Elements with Mixed Media Try to provide students with media related to the science unit they are studying. For example, students learning about the water cycle can: Upcycle Art Projects Have students bring in a variety of items from home that would have either been recycled or tossed in the trash and use these items in their artwork. Students can upcycle these items into interesting works of art. The possibilities are endless and students will be able to express their creativity while learning about recycling, reusing, upcycling, and sustainability. Demonstrate Science Concepts through Movement Have students get up and out of their seats to move around! Not only will students be incorporating science concepts throughout their drama activities, but being able to get up to stretch and move around will help students release a bit of energy and help them refocus on the task at hand. Students can act out changes of state by starting off as a frozen piece of ice, melting into a pool of water, and then evaporating into vapor. The same concept can be used to learn about the water cycle, particles, and the four layers of the Earth. Be on the lookout for various environmental programs offered by your state or province that would provide students with a science lesson while participating in physical activities; for example, students can plant trees, visit local parks to remove litter, or measure and inventory trees. Phys Ed Physics What better way to learn about physics than to get students physically moving? In this invigorating activity, students can measure the amount of time it takes them to walk, jog, or sprint a particular distance and then calculate their speed and average speed. Students can alter the variables to determine what affects the speed of their performance. Science Fitness Circuits Set up various cardio, strength-training, and stretching circuits during your Phys Ed classes where students learn about the human body while visiting each station. During the fitness circuit, students could learn about the aorta while doing jumping jacks, triceps while completing push-ups, and Achilles tendons as they perform front leg raises. Teaching Science with Social Studies History and science fit together seamlessly. Scientific innovation has been a driving force in societal change. To put it in perspective for students, have them consider what life would be like without the internet, phones or electricity. Or what it would be like to look up at the stars and not know what they are. Have students create a presentation that highlights one or more scientific innovations and how they effected society both then and now. To tie in current events, you can

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track the activities of the Mars Rover and its historic mission taking place right now. Creating Activities Across ALL Subjects The last cross-curricular suggestion can actually incorporate several subjects into one engaging lesson where students work together to develop commercials or public service announcements. Pollution PSAs For example, students can create a public service announcement in small groups on the topic of pollution. As a cross-curricular activity, students would be gathering information, writing a script, acting out their roles, designing props and backgrounds, understanding the role of media, and delivering a powerful science and health message. Students can then present their public service announcements to other classes within the school to spread their message. As a way to help you get started, we have included two resources for you to use with your students: Good luck and start planning! Share your lesson ideas for teaching science across the curriculum in the comments section!

Chapter 9 : Marilyn Olson (Author of Twice Sharpened)

News about Mathematics, including commentary and archival articles published in The New York Times.