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EDUC 360

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Science Annotated Bibliography

"Astronomy and Space Classroom Activities and Lesson Plans." *Geoscience News and Information*. Ed. Christy Pratt. Geology.com, n.d. Web. 09 Feb. 2016.

<<http://geology.com/teacher/astronomy-space.shtml>>.

This K-12 resource ranges from various materials including graph paper, lesson plans, and activities revolving around **astronomy and space science**. This gives links to specific areas covered including planets, Earth, sun, the solar system, etc. I will use this as an interactive activity for my students to learn and explore individually and as a team. This also includes fun, interactive, and collaborative activities including demonstrating crater impact factors which adapts to elementary, secondary, middle school students.

****"CHEM4KIDS." *Rader's*. Web. 09 Feb. 2016. <<http://www.chem4kids.com/>>.**

Often times, when students hear the word "chemistry," they immediately think that it will be hard. Little do they know that chemistry can be fun and kid friendly! This website will help me as a teacher develop a fun atmosphere while teaching the world of **chemistry** at a young, critical age. This resource offers information on matter, elements, and atoms and provides them with a simple, colorful, and engaging periodic table.

"Elementary Economics Lessons." *Teaching Elementary Economics Lesson Plans, Kids, Children*.

MoneyInstructor.com. Web. 09 Feb. 2016.

<<https://www.moneyinstructor.com/elementary.asp>>.

This website can be used in multiple areas of the science area teaching field including **national/regional economic concerns**. Primarily, this includes elementary (K-6) economic material. These lessons, lesson plans, and worksheets will introduce my students to consumer economics and basic economic principles, while recognizing and reinforcing other basic skills such as money and basic math. I will use this to implement and incorporate a multiple approach to learning economic issues in society.

"Environmental Education Activities & Resources." *National Educational Association*. NEA. Web. 09 Feb. 2016.

<<http://www.nea.org/tools/EnvironmentalEducationActivitiesAndResources.html>>.

This resource is primarily for teachers as the color scheme is more neutral than other educational resources. Teachers can use this for K-12 students to aid in the development and expansion of their **global environmental concern** lessons. I will use this in my future classroom to explore the various topics regarding concerns in our environment. One key point on this website is the selection of posters and the use of National Geographic Kids and their resources that they have to offer. National Geographic allows teachers and students to read kids' stories and interviews with scientists, watch videos, look at facts and photos, and experiment with activities and games.

***Learning About Scientists*. Virginia Department of Education, 2008. PDF.**

This is a PDF resource for K-4 that can be used each year while teaching **scientific contributions**. This is a PDF document that can be transferred to the SMART board or other technology to display to my students. The use of pictures and visual aids is important to aid in student discovery and encourage

them to wonder and marvel at how things have changed from the past to today's society as they sit in a classroom with extraordinary technology.

"Lesson Plans." *Physical Sciences*. Discovery Education. Web. 09 Feb. 2016.

<http://www.discoveryeducation.com/search/page/-/lesson-plan/physical%20science/index.cfm>.

Discovery Education can be used for K-12 teachers and students looking to discover and explore material in the **physical science** field. Discovery Education forces students and teachers to take learning into their own hands through the resources provided. As a teacher, I will ensure to incorporate this into my daily lessons as it gives lesson plans that can be used, modified, or adapted to fit the needs of your students. This also gives field trip ideas as well as science fair resources to aid in a successful science fair program in your school!

****"Life Science." *Essential Science for Teachers*. Web. 09 Feb. 2016.**

<https://www.learner.org/courses/essential/life/about/index.html>.

Annenberg Learner uses media and telecommunications to advance teaching in American schools. This is a broad distribution of video programs that coordinated with Web and print materials for K-12 teachers within the **life science** field. The foundation's goal is to encourage the development of more effective ways to share ideas and expand knowledge. With this, it will help me to increase my expertise in specific areas as well as assist me in improving my teaching methods. Along with the video and print resources, many of the programs are intended for students in the classroom and viewers at home. It is important for use as a supplemental material as part of a lesson plan as well as student resources.

University of Kentucky. "Educational Resources for K-16." *Educational Resources for K-16*.

Kentucky Geological Survey, 23 Jan. 2014. Web. 09 Feb. 2016.

<<http://www.uky.edu/KGS/education/>>.

This K-12 resource is useful in many different aspects including an aid in lesson planning as well as information dealing with mineral, rock, and fossil collections. One of the key findings of this resource is the classroom activities link in which I will use in my classroom on a regular basis when **earth science** is discussed. For example, there are exercises and activities to demonstrate geological time using paper, clocks, calendars, fields, etc. as well as activities to aid in the understanding of how fossils form. Hands-on activities are vital at all ages of life which makes this resource useful for many teachers and students, if necessary.

Unknown Scientist. "15 Famous Black Scientists in History." *Famous Scientists. Content & Imagery.* Web. 09 Feb. 2016.

<<http://www.famousscientists.org/15-famous-black-scientists-in-history/>>.

Often times, it is difficult to discern between which famous contributions to include in a lesson. However, in a lesson regarding the **scientific contributions of males and females from various cultures** it is important to recognize the various cultures to relate to all students in a class. This website will give me the opportunity to discern between what scientists will be used and what scientists will be omitted in that lesson.

"Weather." *Edheads.* Edheads.org. Web. 09 Feb. 2016.

<<http://edheads.org/activities/weather/index.shtml>>.

This is an incredible resource cite used for teachers to involved their students in a hands-on way. There are games which promote students to work together in teams or discover things on their own. This can also be used as a resource for teachers to introduce to their students as well as encourage parents to

use the material to help students engage in the material that is covered in class. Instead of going home to play games on an Xbox or Wii, parents can encourage playing educational games such as this resource provided while covering material under the K-6 social sciences.