

Coconino High School

Weekly Learning Guide

Course	Environmental Science	Week Assigned	May 11 - May 15
Lesson Title	Nonrenewable Energy: Nuclear		
Teacher(s), Email, & Other Contact Information	Alicia Abel aabel@fUSD1.org		
Target Standards	Essential HS.E1U3.14 Engage in argument from evidence about the availability of natural resources, occurrence of natural hazards, changes in climate, and human activity and how they influence each other		
Learning Goal	I can describe how uranium is mined and used for nuclear power. I can describe the advantages and disadvantages of using nuclear power for electricity.		
Essential Questions	<ol style="list-style-type: none"> 1. How do we get uranium? 2. How is a nuclear power plant similar to and different from a coal power plant? 3. What are advantages for using nuclear power for electricity? 4. What are disadvantages for using nuclear power for electricity? 		
Learning Activity	Students will complete the Google Doc assignment “Nonrenewable Energy: Nuclear” that can be found in Google Classroom. Students will be directed to multiple websites and will use that information to answer the 10 questions on the assignment. To get full points, students must satisfactorily complete the Google Doc and turn it in in Google Classroom.		
Resources	<p>In the Google Doc, the students will be directed to access the following websites:</p> <p>https://geoinfo.nmt.edu/resources/uranium/mining.html</p> <p>https://www.energy.gov/ne/articles/nuclear-101-how-does-nuclear-reactor-work</p> <p>https://www.nei.org/fundamentals/how-a-nuclear-reactor-works</p> <p>https://azbigmedia.com/business/palo-verde-inside-the-nations-largest-nuclear-power-plant/</p> <p>https://www.renewableresourcescoalition.org/nuclear-energy-pros-cons/</p> <p>https://www.history.com/this-day-in-history/nuclear-disaster-at-chernobyl</p> <p>https://www.rferl.org/a/update-chernobyl-disaster-how-it-happened/29193709.html</p>		

<p>Links to Printable Materials</p>	<p>PDF of alternative presentation: https://drive.google.com/file/d/1iNmHYJT2ozye-ppCBvafh_K734emCuN/view?usp=sharing</p> <p>PDF of material on mining: https://drive.google.com/file/d/1wKkK0btfzmw99k2SMecjcUmYYqL78Nqw/view?usp=sharing</p> <p>PDF of material on Chernobyl: https://drive.google.com/file/d/1k8vXOkCbgA6oPVGKg_8IEhU18eLv4x2M/view?usp=sharing</p> <p>PDF of alternative printable assignment: https://drive.google.com/file/d/1ume0RA6gfEQD5cYnUhVpz-qW777NgrTF/view?usp=sharing</p>
<p>Extension & Enrichment</p>	<p>Here is a link to my favorite documentary about Chernobyl: https://www.dailymotion.com/video/x6hj8gh</p> <p>If you get a chance to watch it, here are a few questions to think about:</p> <ol style="list-style-type: none"> 1. What might have made the situation different if it had happened in the United States? 2. Who (or what) do you think was most at fault for the Chernobyl disaster? 3. What do you think could have been done to prevent the meltdown or to have lessened the impact of the disaster?