

Lesson Plan: Writing a research paper and giving a speech over how politics, corruption and or organized crime in Eastern Europe affects the ability of the basic citizen to obtain the energy they need for their everyday life. The sources of energy required to produce electricity, heat and cool their homes, and fuel for transportation.

Activities: Writing a research paper and giving a speech based on it in front of an audience.

Timeframe: Approximately two 60-minute class sessions or 120 minutes in all.

Course and Grade Level: Grades 9-12. This lesson is intended for students in Speech Class. It can also be used in Physics and Chemistry classes during the units focused on energy while researching the various sources of energy. It can also be used in Earth and Space Science while looking at the global energy impact upon our country.

Materials Needed: Paper for the students to write their paper on, a notecard for the presentation and access to the internet for research or give them printed version of the selected articles to use as resources.

Texas State Learning Standards

TEKS Physics 112.45

5) Science and social ethics. Scientific decision making is a way of answering questions about the natural world involving its own set of ethical standards about how the process of science should be carried out. Students should be able to distinguish between scientific decision-making methods (scientific methods) and ethical and social decisions that involve science (the application of scientific information).

6) Science concepts. The student knows the nature of forces in the physical world. The student is expected to: (B) identify and describe examples of electric and magnetic forces and fields in everyday life such as generators, motors, and transformers;

7) Science concepts. The student knows that changes occur within a physical system and applies the laws of conservation of energy and momentum. The student is expected to: relate the impact of past and current research on scientific thought and society, including research methodology, cost-benefit analysis, and contributions of diverse scientists as related to the content; and research and explore resources such as museums, libraries, professional organizations, private companies, online platforms, and mentors employed in a science, technology, engineering, and mathematics (STEM) field in order to investigate STEM careers.

8) (A) calculate and explain work and power in one dimension and identify when work is and is not being done by or on a system; (B) investigate and calculate mechanical, kinetic, and potential energy of a system; (C) apply the concept of conservation of energy using the work-energy theorem, energy diagrams, and energy transformation equations, including

transformations between kinetic, potential, and thermal energy; (D) calculate and describe the impulse and momentum of objects in physical systems such as automobile safety features, athletics, and rockets; and

Objectives: After the lesson, the students will be able to:

- Understand the primary purpose of an academic research paper as well as understand how politics, corruption and or organized crime in Eastern Europe affects the ability of the basic citizen to obtain the energy they need for their everyday life.
- Be able to draw relationships to what is going on in Eastern Europe to other places in the world, including the United States.
- Know ways to get started with the writing process.
- Understand barriers associated with writing a research paper.
- Be able to start writing a research paper.
- Be able to give a presentation about a research paper the student has written in front of the class

Background: Students in a speech class need to be able to understand how to write a research paper and how to present their findings orally to a group. Students studying science need to be able to share what they have learned through their research and be able to share that with other people from a variety of audiences so that it may be understood by people both inside and outside the fields of science. Energy consumption and the ability to obtain the energy needed for everyday life is something that everyone all over the world experiences and this will give students an opportunity to research and understand that it is not just the technology that determines who has access to the energy that is available.

This lesson provides students a framework to begin writing a research paper while allowing them to learn more about politics, corruption and organized crime and energy in Eastern Europe

Introduction to Lesson [5 minutes]:

1) Tell students what they will be researching and that they will be creating a research paper in which they will be looking at *how politics, corruption and or organized crime in Eastern Europe affects the ability of the basic citizen to obtain the energy they need for their everyday life.*

- Play the YouTube video at (<http://www.youtube.com/watch?v=JZxpGj5SIbs>) to show a humorous cartoon version of how to begin to write an essay (or a research paper) according to SpongeBob.
- Laugh and relate to the obstacles that many people face (including SpongeBob) when asked to write an essay.
- Go over how to cite your papers bibliography you may use this page as a reference and give this to the students, projecting the page on the screen to explain (<https://research.com/research/how-to-cite-a-research-paper>)

2) Explain the objectives:

- Understand the primary purpose of this assignment is to create an academic research paper and present your findings to the class.
- Share the resources listed and encourage them to do some research and find their own resources. They must use at least one resource **not** provided by the instructor.
- Know three ways to get started with the writing process.
- Understand the common barriers when writing a research paper.
- Be able to start writing a research paper.
- Make sure they understand the definitions of corruption, organized crime and exactly what is considered eastern Europe and that they understand what is meant by energy needed for everyday life, be that electricity, or energy used to heat a cool a house, fuel for automobiles or public transportation, for food production etc.
- Make sure the students understand when the paper is due., what format, is required, how long it must be, how many sources are required

3) After they have written their rough drafts pair them with another student to read each other's paper and to help proof and provide advice to each other on their papers, going over the papers, bibliographies etc. They can also check things such as spelling, grammar or punctuation.

4) Complete the final draft and prepare the note card for the oral presentation.

5) Students give the final presentation of the paper.

Closure/Evaluation (having them due at different times will help them to learn to manage their time)

Students will receive a grade for their:

- Rough draft
- Final draft
- Bibliography
- Note Card
- Final Presentation

Lesson Analysis: This will help them to learn to write a research paper, give an oral presentation as well as learn about how *politics, corruption and or organized crime in Eastern Europe affects the ability of the basic citizen to obtain the energy they need for their everyday life.*

Supporting Materials and Possible Resources:

- Corruption and Power in Europe. Foreign Policy Research
 - <https://www.fpri.org/wp-content/uploads/2018/04/buckley.pdf>
- The Threat of Russian Organized Crime
 - <https://www.ojp.gov/pdffiles1/nij/187085.pdf>

- Organized Crime and Corruption in Russia: Implications for U.S. and International Law
 - <https://irp.fas.org/world/para/docs/ruscrime.htm>
- How to Stop Oil Companies From Propping Up Kleptocrats, Alexandra Gillies
 - <https://resourcegovernance.org/blog/how-to-stop-oil-companies-propping-up-kleptocrats>
 - Energy information on the different sources and forms of energy and how they may be used for production of electricity and for automobile fuel production. www.need.org
 - Secondary Science of Energy and the Secondary Energy Information Booklet would be two good choices to download free for background information on energy.

Key Terms and definitions for the energy related items and for research can be found in the back of the free to download Science of Energy Booklet at https://shop.need.org/products/science-of-energy-kit?_pos=2&_sid=568d1f9ef&_ss=r&variant=38617627343