



Title: Careers in the Natural Gas and Oil Industry	
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Course: Science	Duration: 2 days
Grade: 9-12	
Objective: The students will gain knowledge of careers in the oil and gas industries. They will also learn where to go to receive training in the career area of choice.	
Summary of Lesson: Students will research websites to investigate jobs of potential employment depending on student interest.	
Standards: Common Core State Standards, Arkansas State Frameworks	
College and Career Readiness Performance Standards 1.2.1, 1.2.2, 1.2.3, 1.2.4, Common Core Standards SL11-12.1a.d, W11.12.9, Career Ready Practice CRP3, CRP5, CRP7, CRP10	
CODE	STANDARD
1.2.1	Assess how career planning strategies facilitate reaching professional career goals.
1.2.2	Review education and training attainment certification, diplomas and degrees leading to a career focus
1.2.3	Compare opportunity costs over a lifespan for achieving personal career goals
1.2.4	Review extended learning opportunities, student or professional organizations, and extra-curricular activities that align within the chosen career pathway.
Teacher Excellence Support System (TESS): Domain 3a: Communicating with students	
Instructional Strategies and Practices: Nonlinguistic representation--career brochure; Brainstorming jobs in oil and natural gas industry; Technology—use computer to research a careers	
Bloom's Level: Highest Level Only Analysis (Students will select a job title and design information in the form of a brochure.)	



Materials and Resources:

- Student Handout: Career Report
- <http://arkansasatwork.org>
- www.swn.com
- <http://energy4me.org>
- <http://www.mms.gov>
- A variety of art supplies to create a career brochure.

Formative Assessment

Students will check the format used to see if they understand the information assembled. Students will ask a peer to make a critical assessment of their work.

Notes to Teacher:

Previous knowledge built upon technology connections used in Computer Business Application Chrome books used to research information from websites.

Student Activity

1. During class discussion, have students brainstorm jobs they think are available in the oil and natural gas industry.
2. Ask students where they think workers receive skills for these jobs.
3. Ask students to estimate the salaries for these jobs.
4. Ask students if they have family or friends that work in the industry
5. Distribute **Student Handout: Career Report** and discuss the importance of each question.
6. Provide computers with internet access and several good websites where students can research their chosen career. (See Materials and Resources)
7. Students compile information on their chosen career and prepare a visual, such as a brochure, to advertise their job.
8. Teacher uses a rubric to grade the brochure and career report.
9. Students present job skills to fellow students to promote their career.

Student Handouts: (A printable copy of the handout is available at:

<http://www.arkansasenergyrocks.com/educators/index.html>. (Select Curriculum, then 9-12 Lesson Plan – student handouts accompany each lesson plan.)



Student Handout | Careers in Natural Gas and Oil Industry | Report

Name _____ Date _____ Period _____

1. Career you have chosen: _____
2. What does this person do? Explain or describe this person's job. _____

3. What kind of working conditions does this job have? Does the person have to work outdoors, indoors? Is there a lot of paper work a lot of hands-on things to do: For example, writing reports or working with tools?

4. What kind of skills does this person need to have? What kind of training does he/she need to have?

5. Where can this person get the kind of training needed for this job? Does this person need to go to college?

6. Where can this person apply for this type of job?

7. How much does this job pay? _____
8. What are the future job market demands? Will there be a lot of these types of jobs in the near future? _____

9. After your research do you still feel you would be interested in this type of job? Explain why or why not. _____

10. What is the most important thing you have learned from this report? _____

