

INSPIRE GK12 Lesson Plan



Lesson Title	Where Will Your Future Take You?
Length of Lesson	One (50 minute) class period
Created By	Rob Thornton, Will McBryde
Subject	General Science
Grade Level	8 th grade
State Standards	8 th : 1b, d (Inquiry)
DOK Level	DOK 2
DOK Application	Categorize, Make Observations, Distinguish
National Standards	5-8: A (Inquiry)
Graduate Research Element	Informing current middle school students about university studies (meteorology, geography and geology) and how these subjects apply to real the world.

Student Learning Goal:

MS 8th Grade:

1b, d (Inquiry). The students will be exposed to the three core categories of study within the Geosciences. Students will make observations about each career path in order to better understand a subject of interest. In addition, personal experiences of lecturers' will be shared. Overall, the lesson will emphasize the importance of good grades, participation in extracurricular activities and education.

National Science Education Standards of Content 5-8:

A: Inquiry: Abilities necessary to do scientific inquiry; Understandings about scientific inquiry. Students will use a note taking sheet to visualize a potential career path while viewing a presentation on careers in Geosciences.

Materials Needed (supplies, hand-outs, resources):

PowerPoint file (INSPIRE_Thornton_07.20.10_PP); laptop; projector; guided note taking sheet (INSPIRE_Thornton_07.20.10_Notes)

Lesson Performance Task/Assessment:

Formative:

Engage the students in a discussion of their career choice(s) and why?

Summative:

Observation and checking student note taking sheets for completion.

Lesson Relevance to Performance Task and Students:



The PowerPoint presentation will help demonstrate to students how getting good grades and extracurricular activities in middle school can lead to a career in science. It will also be stressed to the student that a career in science can lead to a rewarding life.

Anticipatory Set/Capture Interest:

Images of various careers in Geosciences will be displayed at the front part of the presentation. Each image will be numbered 1-4 (1=geoscientist, 2=geologist, 3=meteorologist, 4=geographer). During the presentation, students will record the number of the image(s) they find interesting. After the images finish, students will look at their numbers to see if there is a prevailing digit to determine a preferred area of interest. This will capture the students' attention at the beginning, so they can see the benefits of education.

Guided Practice:

Present PowerPoint slides on careers in Geosciences; Students will take notes on a guided note taking sheet; Discussion of career choices.

Independent Practice:

Students will take notes on the guided note-taking sheet provided.

Remediation and/or Enrichment:

Remediation- Individual IEP; PowerPoint will be made available to resource teacher;
Enrichment - Have students research a career in more detail. Play a charade game with Geosciences careers. Invite a local geoscientist to speak to class. A good resource to solicit local speakers is found at www.nationallabday.org/volunteers

Check(s) for Understanding:

Observe students filling-in note taking sheets and participation in presentation; Review students' note taking sheets to see if they identified a potential career.

Closure:

Assign extra credit opportunity (see Enrichment).

Question 1: Describe the importance of making good grades right now and not waiting until high school or later?

Question 2: Explain why you should begin thinking about a career this soon in your life?

Possible Alternate Subject Integrations:

Other careers could be incorporated into the PowerPoint presentation such as Physics, Chemistry, Math, Engineering, etc.

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Teacher Notes:

This activity could apply to all middle school grades and be delivered in the form of a school-wide group assembly. This could be modified for high school age students as well. Geosciences career links:

<http://www.agiweb.org/workforce/brochure.html>

http://www.science-engineering.net/america/careers_in_geoscience.htm