

## INSPIRE GK12 Lesson Plan



<b>Lesson Title</b>	Where Will Your Future Take You?
<b>Length of Lesson</b>	One (50 minute) class period
<b>Created By</b>	Rob Thornton, Will McBryde
<b>Subject</b>	General Science
<b>Grade Level</b>	8 <sup>th</sup> grade
<b>State Standards</b>	8 <sup>th</sup> : 1b, d (Inquiry)
<b>DOK Level</b>	DOK 2
<b>DOK Application</b>	Categorize, Make Observations, Distinguish
<b>National Standards</b>	5-8: A (Inquiry)
<b>Graduate Research Element</b>	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](http://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](http://www.science-engineering.net/america/careers_in_geoscience.htm)