

Scientific Literacy Center

Summer STEM Programs for High School

Class Time: 15 minutes

Grade Level: High School

Assignment Type: Homework

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Summer STEM Opportunity

Lesson Overview:

The activity below will allow students to explore the pathway to a summer STEM opportunity. Students will research area programs and complete the application process. Although the video and PowerPoint address undergraduate research programs, this assignment is designed to give the high school student an opportunity to access

Materials:

1. Scientific Literacy Course video lecture, PowerPoint and lesson handout (high school) for *Research Experience for Undergraduates*

2. Links to:

Aerospace Engineering Camp at Southern Polytechnic State University in Marietta, GA:

www.spsu.edu/aerospace

Various K-12 Programs and Camps including LEGO League are run through Georgia Tech's Center for

Education Integrating Science, Mathematics, and Computing (CEISMC) - www.ceismc.gatech.edu

The Institute for Computing Education (ICE) Summer Camps: <http://coweb.cc.gatech.edu/ice-gt/1080>

T.E.A.M. (Team-based Engineering and Manufacturing) Summer Camp 2014

<http://teamcamp.gatech.edu/>

Women in Engineering-TEC camp (Technology, Engineering, and Computing)

<http://coe.gatech.edu/content/tec-camp-2014>

Space Camp at the U.S. Space and Rocket Center in Huntsville, AL: www.spacecamp.com

3. Computer, Projector, Internet connection

High School Students

National Standards:

- A. Science as Inquiry
- E. Science and Technology

GA Standards:

SCSh8. Students will understand important features of the process of scientific inquiry.

Undergraduate Students

Best Practices for Scientific Literacy

- 6. Possessing a relevant knowledge of career opportunities in STEM

Lesson Objectives:

- 1. Students will explore a professional development opportunity through a Summer STEM Opportunity.
- 2. Students will research area programs and complete the application process.