

**Activity Title:** Ship Shape: Careers on a NOAA Ship

**Subject (Focus/Topic):** Maritime careers

**Grade Level:** 6<sup>th</sup> grade

**Average Learning Time:** Two 60 minute lessons

**Lesson Summary (Overview/Purpose):** In this lesson, students will research careers available on board a NOAA ship, create a job posting for the jobs on board the ship, and apply for jobs available.

**Overall Concept (Big Idea/Essential Question):** What job opportunities are available on a ship?

**Specific Concepts (Key Concepts):**

- There are a variety of opportunities for careers on board a NOAA ship
- You can be involved in scientific research in a variety of ways

**Focus Questions (Specific Questions):**

- What are the different careers available on a NOAA ship?
- How do different jobs support one another on the ship?
- What are the responsibilities of each job on board a ship?

**Objectives/Learning Goals:**

By the end of the lesson, students will be able to:

1. Describe careers on board a NOAA ship offers using the websites and information provided
2. Create a job posting using accurate information about qualifications, schooling/degree requirements, estimated salary, and job duties
3. Apply for a job citing qualifications they have to do the job they are applying for

**Background Information:**

Students need to know there are a variety of different jobs available on a ship.

**Common Misconceptions/Preconceptions:**

Only scientists work on ships/there are limited opportunities for jobs on board a ship

**Materials:**

- Computers with internet access
- Poster paper or computers to create job posting
- Paper for job applications

**Technical Requirements:**

- Computers with internet access

**Teacher Preparation:**

Teachers need to have a general knowledge of the different jobs on a NOAA ship.

**Keywords:** deck hand, steward, scientist, engineer, NOAA Corps officer

**Pre-assessment Strategy/Anticipatory Set (Optional):**

Show students the video of a NOAA Corps officer (<http://teacheratsea.wordpress.com/2012/07/07/andrea-schmuttermair-back-on-solid-ground-july-7-2012/>)

**Lesson Procedure:**

1. Show students interview of a NOAA Corps officer.
2. Discuss with students and show pictures of the different people who work on board the *Oregon II*.
3. Have students pick one of the jobs they would like to research.
4. Give students time (in class or at home) to research their assigned job and gather information about the qualifications, schooling/degree requirements, estimated salary, and job duties.

Day 2:

5. Have students write up a job posting to post on a "Job Board".
6. Have students look at the job postings and choose a job they would like to apply for.
7. Students fill out a "job application" for a job they feel they are qualified for, citing what qualifications (aside from schooling) they have that would help them succeed at this job.

**Assessment and Evaluation:**

Students will create a job posting listing the qualifications, schooling/degree requirements, estimated salary, and job duties.

Students will fill out a job application stating which job they would be most qualified for and what qualities they have that would help them succeed at this job.

**Standards:****National Science Education Standard(s) Addressed:**

**G** b. Science requires different abilities, depending on such factors as the field of study and type of inquiry. Science is very much a human endeavor...etc.

5 e. Scientists and engineers work in many different settings, including colleges and universities, businesses and industries, specific research institutes, and government agencies.

**Ocean Literacy Principles Addressed:**

6 g Everyone is responsible for caring for the ocean. The ocean sustains life on Earth and humans must live in ways that sustain the ocean. Individual and collective actions are needed to effectively manage ocean resources for all

6f Ocean exploration is truly interdisciplinary. It requires close collaboration among biologists, chemists, climatologists, computer programmers, engineers, geologists, meteorologists, and physicists, and new ways of thinking.

**State Science Standard(s) Addressed: N/A**

**Additional Resources:**

1. NOAA Teacher at Sea books
2. NOAA Marine Operations: <http://www.moc.noaa.gov/shipjobs/>
3. Oceancareers.com: <http://www.oceancareers.com/2.0/index.php>
4. OceanLink: <http://oceanlink.island.net/career/career2.html>

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