

## Rocky Shore Marine Science Curriculum: An Ecosystem Unit for Elementary Educators

### Unit Project Components

Component	Location	Description
Field Guide Research Project	Lesson Eight	Students participate in a research project by creating a classroom field guide during reading or writing sessions. Use the <i>Student Field Guide</i> sheets for students to record or type their research. When finished, bind and laminate and bring along on a rocky shore field trip (if possible).
Rocky Shore Reading Challenge	Lesson Ten	Students participate in a classroom “Rocky Shore Reading Challenge!” Each student is given a <i>Rocky Shore Challenge Reading List</i> to fill out as they read either at home or at school (or both) and a <i>My Rocky Shore Creatures</i> template. Once students read 100 chapters (or 100 books) they have completed the Rocky Shore Reading Challenge!
Math Activities	Lesson Eleven	Students participate in “Tide Pool Math” activities created by the Bureau of Ocean Energy Management ( <a href="https://www.boem.gov/Tidepool-Math/">https://www.boem.gov/Tidepool-Math/</a> ).
Reading Partners	Lesson Twelve	Students participate in a daily leveled reading activity called “Ocean Partners.” Teachers create partner book packets using mailing envelopes and developmentally appropriate books on ocean topics. The book packet should contain two books and any materials your students may need for book activities. Have student partners take turns reading the book aloud for fluency development.
Writing Project	Lesson Sixteen	Students research an ocean animal and write a story about the animal. Use Suzanne Tate’s stories, along with Nancy Donovan’s story <i>Oscar the Herring Gull</i> as examples. Consider using the template provided to help students format their story.
Homework / Assessment Project	Lesson Twenty-Three	Students participate in an activity that enables them to demonstrate the knowledge they have gained from the rocky shore ecosystem unit in an alternative way to a paper and pencil assessment.

### **Sidebar Key**

**Teacher Tips:** Advice on how to potentially improve various aspects of a lesson.

**Extension Suggestions:** Additional lessons or activities that complement a particular topic.

**Books:** Valuable literary options that connect to the lesson’s topic.

**Websites:** Online tools, particularly brief videos, which connect to the lesson’s topic.

**Scientist Notebook:** Possible science notebook entries to reinforce lesson content knowledge.