

## Project Title: Your Coast

The Outreach Team ran a pilot project looking at the feasibility of a Regional Maritime Curriculum. In this particular case the high school choose to learn about the local maritime heritage. We developed complimentary activities and resources that utilised the schools locality: in each case the marine environment. The outreach team worked with the students during several sessions either in the schools, University main campus or at the Dove Marine Laboratory. The pupils completed pre and post project questionnaires which looked at baseline knowledge of marine concepts and specific knowledge about their topic. Information was gathered about the pupil's attitudes to their locality and their feelings of sense of place. In each school the results showed significant increases in knowledge and positive changes in attitudes towards locality and community.

We have decided to upload the resources we developed via this project and we hope the resources inspire others to learn about their local area.

### Project Aims:

1. Do school pupils find it interesting to learn about the local area?
2. How much do pupils know about the local coastal area?
3. Do pupils like learning outside the classroom?
4. Do pupils think is beneficial to learn from experts in the marine environment?

### Project Outline

Session 1: Marine coastal systems and Classification of marine animals.

Session 2: History of ship building in Amble and the physics of ship building (main campus, Newcastle University)

Session 3: The Ocean as a resource - Human uses and impacts

### Teachers Notes:

#### Session 1: Marine coastal systems and Classification of marine animals.

<b>Resources:</b>	<ul style="list-style-type: none"> <li>• <b>PowerPoint 1</b> Marine coastal systems and Classification of marine animals.</li> <li>• <b>Worksheet 1:</b> Environmental Impact Assessment</li> </ul>
<b>PowerPoint notes</b>	The purpose of the PowerPoint presentation is to find out what the pupils know, love and enjoy about their local area and to set the scene for the activity. The activity task is design to get the pupils to think like a marine environmental consultant. We created a scenario that a Multi-Millionaire wanted to build a Luxurious hotel, Spa and Golf complex in Amble and the pupils were asked to decide which location in amble would be most suitable and which location would cause less environmental damage. Please see PowerPoint for further notes.
<b>Extension work:</b>	Pupils were asked to design a campaign poster/presentation either supporting the developing or opposing the development.

## Session 2 History of ship building in Amble and the physics of ship building

<b>Resources</b>	<ul style="list-style-type: none"> <li>• <b>Powerpoint 2:</b> Engineering innovation in the north east</li> <li>• Material and tools to make a model boat</li> </ul>
<b>PowerPoint notes</b>	<p>The purpose of this presentation is for pupils to learn</p> <ul style="list-style-type: none"> <li>• What type of boat was traditionally built in Amble?</li> <li>• Examples of engineering innovation within the north east of England.</li> <li>• What does a marine engineer do?</li> <li>• What factors need to be considered when designing a model boat</li> <li>• Design and build your own model boat</li> </ul>
<b>Extension work</b>	Design and building a model boat

## Session 3: The Ocean as a resource - Human uses and impacts

<b>Resources</b>	<p><b>PowerPoint 3:</b> The Ocean as a resource - Human uses and impacts  <b>Worksheet 2:</b> Seaweed game – guess what products contains seaweed  <b>Worksheet 3:</b> Fish ID game: Version 1 or 2</p>
<b>PowerPoint notes</b>	<p>The purpose of this presentation is for pupils to learn</p> <ul style="list-style-type: none"> <li>• What are the main marine resources we exploit?</li> <li>• What are the main human impacts on the Ocean?</li> <li>• What can we do about these issues?</li> </ul>
<b>Extension work:</b>	<ul style="list-style-type: none"> <li>• Discuss all the Human impacts on the ocean ie. Climate change, overfishing, marine invasive species, endangered species.</li> </ul>