



Community Seagrass Initiative
Key Stage 3- Programme of Study

Adaptations

<p>National Curriculum</p>	<p>During this session students will experience up to and including:</p> <p><u>Citizenship KS3</u></p> <ul style="list-style-type: none"> Equipped with the skills to think critically and debate The different ways in which a citizen can contribute to the improvement of his or her community, to include the opportunity to participate actively in community volunteering, as well as other forms of responsible activity <p><u>Geography KS3</u></p> <p>Location Knowledge</p> <ul style="list-style-type: none"> Extend their locational knowledge and deepen their spatial awareness of environmental regions <p>Human and Physical Geography</p> <ul style="list-style-type: none"> Understand how human and physical processes interact to influence, and change landscapes, environments and the climate <p><u>Science- Key Stage 3</u></p> <p>Experimental skills and investigations</p> <ul style="list-style-type: none"> ask questions and develop a line of enquiry based on observations of the real world, alongside prior knowledge and experience <p>Nutrition and digestion</p> <ul style="list-style-type: none"> plants making carbohydrates in their leaves by photosynthesis and gaining mineral nutrients and water from the soil via their roots. <p>Gas exchange systems</p> <ul style="list-style-type: none"> the role of leaf stomata in gas exchange in plants. <p>Reproduction</p> <ul style="list-style-type: none"> reproduction in plants. <p>Photosynthesis</p> <ul style="list-style-type: none"> the dependence of almost all life on Earth on the ability of photosynthetic organisms, such as plants and algae, to use sunlight in photosynthesis to build organic molecules that are an essential energy store and to maintain levels of oxygen and carbon dioxide in the atmosphere the adaptations of leaves for photosynthesis.
<p>Learning Outcomes/I can statements</p>	<ul style="list-style-type: none"> Pupils can describe what an ‘adaptation’ is Pupils understand how seagrass is adapted to life in the marine environment and give examples of these adaptations. Pupils can give examples of adaptations marine animals possess and be able to relate these adaptations to the environment they live in
<p>Methods to Achieve Learning Outcomes</p>	<ul style="list-style-type: none"> Key terms are introduced and explained at the start of the session to ensure full understanding Video conferencing will provide interaction with a marine scientist, as well as a range of media formats such as presentations and videos Set challenges and worksheets to reaffirm the information covered during the session



INFORMATION FOR TEACHERS

Concepts covered	<ul style="list-style-type: none">• Adaptation of seagrass and seahorses• Habitats• Photosynthesis, reproduction, gas exchange and nutrient absorption of Seagrass.
Opportunities	<ul style="list-style-type: none">• Visit to the National Marine Aquarium to see seagrass exhibits and other marine habitats and animals• Outreach visit from Aquarium staff