EXPLORERS EDUCATION PROGRAMME™

EXPLORERS PLANNING GUIDE FOR PRIMARY SCHOOL TEACHERS

MARINE PROJECTS ENVIRONMENTAL AWARENESS AND CARE

TEACHER'S PRESENTATIONS
CROSS-CURRICULAR LESSON PLANS
AND ACTIVITIES





EXPLORERS EDUCATION PROGRAMME™ MISSION STATEMENT AND GOALS

OUR MISSION STATEMENT

The Explorers Education Programme™ aims to build on Ireland's marine and maritime heritage by increasing awareness of the value, opportunities and social benefits of our ocean wealth and identity.

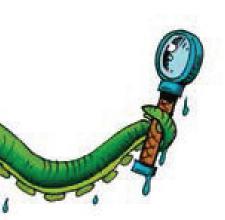
OUR GOALS

- **I. Educate** school children, teachers and educators in Ireland, enabling them to understand the ocean's influence on us and our influence on the ocean, through outreach activities in Ireland.
- 2. Coordinate professional development training and workshops for teachers and trainee teachers, to develop their marine literacy skills and promote the use of marine content in line with the national curriculum.
- **3. Develop** education materials and resources based on the Irish school curriculum to support teachers teaching marine subjects in schools.
- **4. Promote** ocean literacy and marine outreach activities with local communities, educators and influencers so as to create dialogue and engagement about our ocean.



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EXPLORERS CERTIFICATE OF PARTICIPATION

Classes and students may register with their local Explorers centre to complete this module with a Explorers education officer. Please check www.explorers.ie to see if there is a centre in your area. On completion of this module, the class and students will be awarded an Explorers Certificate of Participation.

INTRODUCTION

Ireland is an island with a seabed territory of approximately 880,000 km². Ireland's coastline is approximately 7,500km long. The oceans, seas and shorelines around Ireland present many opportunities to introduce cross-curricular lessons and activities for students of all age groups.

EXPLORERS ENVIRONMENTAL AWARENESS AND CARE PROJECTS

The Explorers teacher's guide for marine environmental awareness and care provides a range of resources, presentations and lesson plans that can be used to teach and inspire students to develop one or more projects about caring for our ocean.

The project themes may include: • Endangered marine species - learning about human impacts on marine environment, habitats and the animals in the ocean • Ocean habitat destruction - how to look after our waterways, coastlines and local seashore • Overfishing - understanding how to manage our ocean resources • Marine litter and marine pollution - creating engagement and action relating to issues such as reducing plastic pollution • Climate change and ocean acidification.

As an island nation situated at the edge of the world's second largest ocean, the Atlantic, students throughout Ireland have a direct link to their marine environment on a daily basis. The world ocean covers 71% of the planet; it plays a part in producing over half the oxygen we breathe, to absorbing carbon dioxide in the air; it drives the water cycle affecting our climate and weather; and it provides us with an abundance of resources including food and energy. Therefore, as our ocean and marine environment is under pressure from human and environmental impacts, this project module provides an opportunity for pupils to learn more about the influence the ocean has on their lives. It also enables pupils to engage, communicate and make informed decisions about protecting the ocean and looking after its resources now and in the future.

EXPLORERS LESSON PLANS AND MATERIALS

Explorer lesson plans have been developed to support teaching about marine environmental awareness and care using a range of curriculum stands and strand units. Subjects include: Science, Geography, Mathematics, English, Gaeilge, Visual Arts, Drama and Physical Education. Suitable lesson plans are suggested in the Recommend Lesson Plan Schedule. These can be carried out as one class or as a range of cross curricular lessons using a marine theme over a number of weeks.

All of the materials are freely available to download from **www.explorers.ie.** A number of the lesson plans are also available in Gaeilge and can be downloaded from the website.

EXPLORERS TEACHERS' RESOURCES

Teacher resources including class presentations, information books, games, posters and evaluation techniques are available to download from **www.explorers.ie.** Other recommended websites relating to marine environmental awareness and care can be found at the back of this booklet.

OCEAN LITERACY PRINCIPLES AND FUNDAMENTAL CONCEPTS

WHAT IS OCEAN LITERACY?

Ocean Literacy means 'understanding the ocean's influence on you and your influence on the ocean'.

An ocean literate person:

- understands essential principles and fundamental concepts about the ocean;
- · can communicate about the ocean in a meaningful way; and
- is able to make informed and responsible decisions regarding the ocean and its resources

OCEAN LITERACY PRINCIPLES AND CONCEPTS

Seven ocean literacy principles and concepts about the ocean have been developed by scientists and educators to help provide consistency and coherence when learning about the ocean.*

These may be introduced in the class to help raise awareness about the ocean's influence on the students and highlight their influence on the ocean. The ocean literacy principles and examples of the concepts are listed below. For more information see teacher's resources the Your Ocean - Your Future presentation and posters at **www.explorers.ie.**

1. The Earth has one big ocean with many features

- The ocean covers 71% of the Planet.
- 97% of the Earth's water is in the ocean.

2. Ocean, life and activity under the sea shape the features of the Earth

- Tectonic activity and climatic changes have shaped continental shelves under the ocean, as well as forming islands and land features above.
- The changing sea levels and the force of the waves continuously affect our coast lines.

3. The ocean is a major influence on our weather and climate

- The ocean drives the water cycle, which supplies us with fresh water.
- The ocean moderates the weather and the Earth's climate.

4. The ocean made Earth habitable

- Over 50% of the oxygen we breathe comes from phytoplankton in the ocean.
- The ocean absorbs 30% of the carbon dioxide added to the atmosphere by human activity.

5. The ocean supports a great diversity of life and ecosystems

- More plant and animal life are found in the ocean than on land.
- Ocean life ranges from the smallest microscopic plants and animals (phytoplankton and zooplankton), to the largest animals on earth, such as blue whales.
- Seashores, estuaries and the deepest parts of the ocean provide important nursery grounds for marine and aquatic species.

6. The ocean and humans are inextricably interconnected

- Food
 - » The ocean provides an essential source of food for human consumption.
 - » The ocean provides minerals, medicine and energy resources that improve our quality of life.
- Trade
 - » More than 90% of global trade is carried by sea.
- Energy
 - » E.U. offshore wind investments topped €4.2 billion in 2014.
- Heritage and Culture
 - » The ocean contributes to our marine heritage and culture through history, sports and leisure.
 - » The majority of Ireland's population lives within 50km of the coast.

7. The ocean is largely unexplored

- New technologies, sensors and tools are expanding our ability to explore the ocean.
- Ireland has one of the largest marine territories in Europe.
- The INFOMAR programme is a Marine Institute and GSI (Geological Survey Ireland) initiative to map Ireland's seabed territory.

^{*}The ocean literacy principles were first developed as an ocean literacy framework in the USA and are now being adopted in the EU. For further information see: Ocean Literacy:The Essential Principles and Fundamental Concepts of Ocean Sciences for Learners of All Ages, Version 2: March 2013. Retrieved from: http://www.coexploration.org/oceanliteracy/documents/ OceanLitChart.pdf

RECOMMENDED LESSON PLAN SCHEDULE

The following schedule provides a list of recommended presentations and lesson plans that can be used for the Explorers Environmental Awareness and Care Projects.

PRESENTATION / LESSON PLAN SCHEDULE						
Explorers Less	son Plans	Estimated time allocation for class activity				
All	Introduction to Our Ocean: 'Our Ocean - Our Future' PowerPoint Presentation	The presentations can be used as an				
	What is degradation - PowerPoint presentation	introduction to lesson plans across				
Science	Flooding & Coastal Communities – PowerPoint presentation					
Geography	Ireland's Marine Resource - What would I do with the Real Map of Ireland? - PowerPoint presentation	Teachers may shorten or expand as required.				
Explorers Less	on Plans	Estimated time allocation for class activity				
Evaluation	Mind mapping - Review ocean literacy concepts	20 minutes				
Science	Oceans all around us - Demonstrating a miniature water cycle	40 minutes - 2 hours				
Science	Biodegradation quiz and beach activities using the biodegradation information sheet	40 minutes - 2 hours				
Science	Materials - Exploring marine debris degradation	40 minutes - 2 hours				
Science	Water pollution	40 minutes				
Science	A whale's tale - Meeting marine animals around the world	2 hours				
Geography	What would I do with my local seashore	40 minutes				
Geography	Keeping our beaches clean from litter	40 minutes				
Geography	Explorers caring for our ocean / action board	40 minutes				
Geography	Organising a beach clean and survey template	40 minutes - 2 hours				
Mathematics	Data on the shore	40 minutes - I hour				
Mathematics	Interpreting and presenting data about marine litter in the ocean	40 minutes - I hour				
English	MarineTV and reporting on marine pollution	40 minutes - 2 hours				
English	Marine litter and what is in the news	2 hours				
English	Writing poetry about Ireland's seashore and oceans	40 minutes				
Gaeilge (T2)	Cén nuacht atá ag tarlú mar gheall ar na farraige ar fud an domhain ar an teilifís?	40 minutes				
Visual Arts	Creating a clay ocean diorama showing the effects of marine pollution	40 minutes - 2 hours				
Visual Arts	Save the seas poster	40 minutes				
Drama	A hermit crab's quest to find a new home	2 hours				
Drama	A whale's tale - adventures of living in the ocean	I - 2 hours				
Physical Education	Litter and waste breakdown game	40 minutes - I hours				

















TEACHERS RESOURCES

INTRODUCTION TO OUR OCEAN: OUR OCEAN - OUR FUTURE PRESENTATION

The Our Ocean Our Future Presentation provides an introduction to how the ocean has an influence on society and how society has an influence on the ocean. The presentation reviews the seven ocean literacy principles and concepts for discussion. The presentation includes images and facts that can be used to cover a range of marine environmental awareness and care topics in the class. these The facts can be used for mind mapping as well as further evaluation and assessment.

FLOODING AND COASTAL COMMUNITIES PRESENTATION

The **Flooding and Coastal Communities Presentation** provides an introduction to flooding. It covers: What is a flood? Why does it flood? Where does the water come from? The water cycle; Where is water stored? Examples of Pluvial vs. Coastal flooding; Impacts of flooding; Flood defences; What else influences flooding - Human impacts, Urbanisation, Deforestation, Sea level rise. This presentation can be used with the lesson plan on building flood defences. This lesson plan can be downloaded from **Lesson Plans**, **Science** at **www.explorers.ie**.

YOUR OCEAN - YOUR FUTURE POSTERS

Ten posters highlighting the ocean literacy principles and concepts provide inspiration for teaching students about the ocean. The posters can be used with a range of lesson plans highlighting each principle and concept. The posters are available to download from **Other Resources** at **www.explorers.ie.**

WHAT IS DEGRADATION PRESENTATION

The **What is Degradation Presentation?** can be used to explain new words associated with degradation of materials, marine pollution and micro plastics.

IRELAND'S MARINE RESOURCE - WHAT WOULD I DO WITH THE REAL MAP OF IRELAND?

Presentation provides illustrations to help students think about the size of Ireland's marine territory as well as come up with ideas of what our marine resource can be used for Learning about Ireland's marine resource can be used to support geography lesson plans relating to human environments, natural environments and environmental care.

EXPLORERS CARING FOR OUR OCEAN ACTION POSTER

The Explorers Caring for our Ocean Action Board Poster can be used with the Geography - Environmental awareness and care lesson plan Explorers Caring for Our Ocean. The poster is available in English and Gaeilge. It can be used to help children form a greater understanding of the ocean's influence on them and their influence on the ocean. The poster can be used to create a strategy to help care for the marine environment as an individual as well as collectively at a local, national and global level setting weekly, monthly and annual actions to create change. The poster is available to download from Other Resources at www.explorers.ie.

EXPLORERS PLANNING GUIDE FOR PRIMARY SCHOOLS TEACHERS - SEASHORE SAFARIS AND FIELD TRIPS

The Explorers Planning Guide for Primary Schools Teachers - Seashore Safaris and Field trips provides information and lesson plans relating to organising a beach clean. It is available to download from **www.explorers.ie.**

LESSON PLANS

SCIENCE



Title: OCEANS ALL AROUND US - DEMONSTRATING
A MINIATURE WATER CYCLE

http://oar.marine.ie/handle/10793/940

Strand:

Strand Unit:

Environmental Awareness and care

Caring for my locality / environment

OBJECTIVE(S)

The aim of the lesson plan is for the children to learn about the marine elements of our natural environment and the importance of the water cycle. Completing the experiment the pupils will learn about the water cycle. They will also investigate and compare the marine environment to other places locally, nationally and internationally.

SKILLS

Working scientifically by • Questioning • Observing • Investigating • Estimating and measuring • Analysing by sorting and classifying • Recording and communicating.

Title: BIODEGRADATION QUIZ AND BEACH ACTIVITIES USING BIODEGRADATION INFORMATION SHEET

http://oar.marine.ie/handle/10793/1101

Strand:

Strand Unit:

Environmental Awareness and care

Caring for my locality / environment

OBJECTIVE(S)

The aim of the lesson plan is for the children to learn about the biodegradation of items typically found on the seashore. This activity can be done in class or on the seashore where children can guess how long items take to biodegrade. See also the geography lesson plan on how to organise a seashore safari and beach clean.

SKILLS

Working scientifically by • Questioning • Observing • Investigating • Estimating and measuring

Analysing by sorting and classifying
 Recording and communicating

Title: MATERIALS – EXPLORING MARINE DEBRIS DEGRADATION

http://hdl.handle.net/10793/1045

Strand: Strand Unit:

Materials Properties and Characteristics of materials

OBJECTIVE(S)

The aim of the lesson plan is for the children to identify and investigate a range of common materials in the immediate environment. The children will observe, investigate and experiment the degradation effects the environment has on these items.

SKILLS

Working scientifically by • Questioning • Observing • Predicting • Investigating and experimenting

Recording and communicating.

Title: WATER POLLUTION

http://oar.marine.ie/handle/10793/941

Strand: Strand Unit:

Environmental Awareness and care Caring for my locality / environment

OBJECTIVE(S)

The aim of the lesson plan is for the children to learn about what causes water pollution and how to be environmentally aware.

*Note: Students should understand the concept of the water cycle before moving onto water pollution.

SKILLS

Working scientifically by • Questioning • Observing • Investigating • Estimating and measuring

Analysing by sorting and classifying
 Recording and communicating.

Title: A WHALE'S TALE - MEETING MARINE ANIMALS AROUND THE WORLD

http://oar.marine.ie/handle/10793/1309

Strand: Strand Unit:

Living things Plant and animal life

OBJECTIVE(S)

The aim of the lesson is to enable children to recognise that there is a great diversity of animals in the ocean. The children will learn about the characteristics of a variety of marine animals and their habitats from different regions and ocean environments around the world. They will also learn about marine pollution affecting the animals that live in the ocean. Note: This lesson plan can be used with the drama lesson plan: A Whale's Tale – Adventures of living in the Ocean.

SKILLS

Working scientifically by • Questioning • Predicting • Analysing • Recording • Researching and communication skills



Title: WHAT I WOULD DO WITH MY LOCAL SEASHORE

http://oar.marine.ie/handle/10793/1051

Strand:

Strand Unit:

Human Environments

Living in the local community

OBJECTIVE(S)

The aim of the lesson plan is for children to identify the beach as a place where people go to enjoy the natural environment and fun activities. Through project work, students will create a postcard campaign to raise awareness and suggest ways that the beach can be kept clean and safe.

SKILLS

Developing a sense of • Place • Space • Using pictures, maps and globes.

Developing geographical investigation skills by • Observing • Investigating and experimenting

Recording and communicating.

Title: KEEPING OUR BEACHES CLEAN FROM LITTER

http://oar.marine.ie/handle/10793/1002

Strand:

Human Environments

Strand Unit:

Living in the local community

OBJECTIVE(S)

The aim of the lesson plan is for children to identify the beach as a place where people can enjoy the natural environment and play. Through role play the children will identify how people living and working in the local area have an impact on the seashore and ocean and form solutions of ways the community can keep the beach clean and safe.

SKILLS

Developing a sense of • Place • Space • Using pictures, maps and globes.

Developing geographical investigation skills by • Observing • Investigating

Recording and communicating.



Title: EXPLORERS CARING FOR OUR OCEAN

http://oar.marine.ie/handle/10793/1202

Strand:

Environmental Awareness and Care

Strand Unit:

Environmental Awareness
Caring for the environment

OBJECTIVE(S)

The children will form a greater understanding of the ocean's influence on them and their influence on the ocean. The lesson aims to guide children with creating a strategy to help care for the marine environment as an individual as well as collectively. Using the Caring for Our Ocean Action Poster the children will identify and discuss the solutions and come to appreciate the individual, community and national responsibility for caring for the ocean.

SKILLS

Developing a sense of • Place • Space

Developing geographical investigation skills by • Questioning • Recording and communicating

Evaluating

Title: ORGANISING A BEACH CLEAN AND SURVEY TEMPLATE

http://oar.marine.ie/handle/10793/1108

Strand:

Environmental Awareness and Care

Strand Unit:

Caring for my locality
Caring for the environment

OBJECTIVE(S)

The children will conduct a beach clean to show the benefits of caring for their local environment and ocean, as well as becoming environmentally aware and active. This lesson provides a survey template to gather data about litter on the seashore. The data gathered may be used as part of a maths class. The children will have developed a sense of place and space by learning about their local seashore.

SKILLS

Developing a sense of • Place • Space • Using pictures, maps and globes.

Developing geographical investigation skills by • Questioning • Observing • Estimating and measuring • Analysing • Recording and communicating

MATHEMATICS



Title: DATA ON THE SHORE

http://oar.marine.ie/handle/10793/1103

Strand:

Strand Unit:

Data

Recognising and interpreting data

OBJECTIVE(S)

The children will conduct a beach clean and carryout a survey of the types of marine litter on their shore. (See Geography lesson plan: Organising a beach clean and survey). The children will have the opportunity to collect, organise and present data collected during their survey. This lesson plan can be adapted where children can create data sets and graphs to represent marine litter found on the the seashore.

SKILLS

Developing skills through • Communicating and expressing • Integrating and connecting • Reasoning • Implementing • Understanding and recalling

Title: INTERPRETING AND PRESENTING DATA ABOUT MARINE LITTER IN THE OCEAN

http://oar.marine.ie/handle/10793/1314

Strand:

Strand Unit:

Data

Recognising and interpreting data

OBJECTIVE(S)

The children will learn how to represent and interpret data about ocean pollution. They will organise and represent data using bar charts and read and interpret block graphs.

SKILLS

Developing skills through • Applying and problem solving • Communicating and expressing

• Integrating and connecting • Reasoning • Implementing • Understanding and Recalling



Title: MARINE TV AND REPORTING ON MARINE POLLUTION

http://oar.marine.ie/handle/10793/1016

Strand:

Oral Language

Strand Unit:

Receptiveness to language
Competence and confidence in using language
Developing cognitive abilities through language
Emotional and imaginative development through language

OBJECTIVE(S)

The aim of the lesson plan is for the children to learn how to use key media questions: Who? What? Where? When? Why? How? The children will discuss the cause and effect in relation to processes and events and predict possible outcomes. They will also explore reactions to ideas through improvisational drama.

SKILLS

Developing skills through • Reading • Listening • Understanding • Developing Imagination • Creativity and Confidence in using oral language • Attention, Memory, Logic and Reasoning • Auditory Processing, Visual Processing and Processing Speed

Title: MARINE LITTER AND WHAT IS IN THE NEWS

http://hdl.handle.net/10793/1017

Strand:

Reading

Strand Unit:

Receptiveness to language

Competence and confidence in using language

Developing cognitive abilities through language

Emotional and imaginative development through language

OBJECTIVE(S)

The aim of the lesson plan is for the children to explore new interests and perspectives through reading about the effects of marine litter. The students will continue to develop a range of comprehension strategies to deal with narrative, expository and representational reading materials.

SKILLS

Developing skills through • Reading • Listening • Understanding • Developing Imagination, Creativity and Confidence in using oral language • Writing • Spelling • Grammar • Drafting, Revising and editing • Attention, Memory, Logic and Reasoning • Auditory Processing, Visual Processing and Processing speed.

Title: WRITING POETRY ABOUT IRELAND'S SEASHORE AND OCEANS

http://oar.marine.ie/handle/10793/880

Strand:

Oral Language

Reading

Writing

Strand Unit:

Receptiveness to language

Competence and confidence in using language

Developing cognitive abilities through language

Emotional and imaginative development through language

OBJECTIVE(S)

The aim of the lesson plan is for the children to learn about the different types of poems using structures and formatting techniques. As part of the lesson, students will read, listen and develop their understanding about a poem by expressing their reaction through discussion. The students will use their creative thought to write a poem about the oceans using marine environmental awareness and care as the theme.

SKILLS

Developing skills through • Reading • Listening • Understanding • Developing Imagination, Creativity and Confidence in using oral language • Writing • Spelling • Grammar • Drafting, Revising and editing

• Attention, Memory, Logic and Reasoning • Auditory Processing, Visual Processing and Processing speed.





Téideal: CÉN NUACHT ATÁ AG TARLÚ MAR GHEALL AR NA FARRAIGE AR FUD AN DOMHAIN AR AN TEILIFÍS?

http://oar.marine.ie/handle/10793/1232

Snáithe:

Teanga ó bhéal Léitheoireacht Scríbhneoireacht

Snáithaonad:

Ag tuiscint teanga Ag úsáid teanga

CUSPÓIRÍ

Ba chóir go mbeadh na páistí in ann forbairt a dhéanamh ar focail agus frásaí a bhaineann leis na farraige timpeall an domhain. In ann na focail agus frásaí nua a úsáid go muiníneach agus cuntas faoi mír nuachta a mbeadh ar an teilifís a scríobh, trí pháirt a ghlacadh i gníonhaíomhaíochtaí teanga labhartha, léitheoireachta agus scríbhneoireachta.

SCILEANNA

Ba chóir go gcuirfí ar chumas an pháiste • Forbairt a dhèanamh ar a scileanna scríbhneoireacht agus cumarsáideach. • Ainmneacha na farraige timpeall an domhain a fhoghlaim • Páirt a ghlacadh in obair bheirte chun rólimirt a scríobh agus a gníomhú amach faoi píosa nuacht ar an teilifís mar gheall ar na farraige.

WHAT NEWS IS HAPPENING ABOUT THE OCEAN IN THE Title: WORLD ON TV? http://oar.marine.ie/handle/10793/1232

Strand Unit: Strand:

Understanding the language Reading Writing Using the language

OBJECTIVE(S)

The children will develop words and phrases relating to the ocean in the world. They will be able to use their new vocabulary and phrases confidently while writing their script for a news item to feature on television by participating in oral language, reading and writing activities.

SKILLS

Developing skills through • Develop writing and communication skills • Learn the names of the ocean around the world • Participate in paired work and write a script and perform a short drama about the news on television about the ocean.

*The Explorer Gaeilge (T2) curriculum provides a unique opportunity to develop marine literacy at a young age through Oral Language, Reading and Writing. A selection of Explorer lesson plans are also available through Irish in the other curriculum subjects. Please see the Gaeilge section of www.explorers.ie under each subject for more information.

VISUAL ARTS

Title: CREATING A CLAY OCEAN DIORAMA SHOWING THE EFFECTS OF MARINE POLLUTION

http://oar.marine.ie/handle/10793/1001

Strand:

Clay

Strand Unit:

Developing form in clay Looking and responding

OBJECTIVE(S)

The aim of the lesson plan is for children to be enabled to explore and discover the possibilities of clay as a medium for imaginative expression. They will construct a clay ocean diorama showing the effects of marine pollution. The children will respond to the clay dioramas created in the class by talking about their work. They will also discuss and review the work of the other children.

SKILLS

Developing awareness of • Working collaboratively • Fine motor skills • Problem solving skills • Cutting/ pasting and organisational skills.

Title: SAVE THE SEA 3D POSTER

http://oar.marine.ie/handle/10793/929

Strand:

Drawing

Painting and Colour Fabric and Fibre

Strand Unit:

Creating in fabric and fibre Looking and responding

OBJECTIVE(S)

The children will draw, paint and colour, as well as use fabric, fibre (including shells, seaweeds, flotsam and jetsam from the seashore) to create a 3D poster showing how people can protect the marine environment and save the sea. This lesson plan should be delivered after the students have learned about the environment and the sea.

SKILLS

Developing awareness of • Line • Shape • Form • Colour and tone • Texture

• Pattern and rhythm • Space

Developing receptiveness to language • Competence and confidence using language • Developing cognitive abilities through language • Emotional and imaginative development through language.



Title: A HERMIT CRAB'S QUEST TO FIND A NEW HOME

http://oar.marine.ie/handle/10793/1312

Strand:

Drama to explore feelings, knowledge and ideas, leading to understanding

Strand Unit:

Exploring and making drama

Co-operate and communicating in making drama

OBJECTIVE(S)

The aim of the lesson plan is for the children to extend playing in role and in character as well as develop the ability to accept and maintain a brief that has been decided on by the teacher. The children will develop the ability to co-operate and to communicate with others in helping to shape the drama. The activities will enable students to become familiar with the seashore habitat and seashore species. The lesson plan can also be used to help children become aware of litter issues on the seashore.

SKILLS

Developing skills through • Communicating • Co-operating • Questioning • Recording

Title: A WHALE'S TALE - ADVENTURES OF LIVING IN THE OCEAN

http://oar.marine.ie/handle/10793/1311

Strand:

Drama to explore feelings, knowledge and ideas, leading to understanding

Strand Unit:

Exploring and making drama

Co-operate and communicating in making drama

OBJECTIVE(S)

The aim of the lesson is to enable children to recognise that there is a great diversity of animals in the ocean. The children will become familiar with the characteristics of a variety of marine animals from different regions and ocean environments around the world. They will also learn about marine pollution affecting the animals that live in the ocean. Note: This lesson plan can be used with the drama lesson plan: A Whale's Tale – Adventures of living in the Ocean.

SKILLS

Developing skills through • Communicating • Co-operating • Questioning • Recording

PHYSICAL EDUCATION



Title: LITTER AND WASTE BREAKDOWN GAME

http://oar.marine.ie/handle/10793/1313

Strand:

Games

Strand Unit:

Creating and Playing Games

Understanding and Appreciation of Games.

OBJECTIVE(S)

The aim of this lesson plan is to investigate how long different types of waste take to breakdown, through a visual and hands-on game.

SKILLS

Develop the ability to • Understand the impact of litter on our natural environment and identify what we to reduce this impact • Create and develop a game with a partner or small group.

WEBSITES AND LINKS

The following websites and links provide a range of materials that can be used for the Explorers Environmental Awareness and Care Project. Topics that can be used for researching environmental awareness and care projects include: • Marine Litter and Marine Pollution • Climate Change • Ocean Acidification • Over fishing • Ocean Habitat Destruction • Endangered Marine Species

WEBSITES AND LINKS*

Washed Ashore Art Projects

The Washed Ashore website develops art projects with communities that educate people about plastic pollution in oceans and waterways around the world. Check out the artwork for inspiration to create your own exhibits to spark positive changes in consumer habits in your community. See **www.washedashore.org**

Leave No Trace Ireland

Leave No Trace Ireland is an outdoor ethics programme designed to promote and inspire responsible outdoor recreation through education, research and partnerships. The website contains teacher resources and educational publications around the theme of environmental awareness and care. See **www.leavenotraceirleand.org**

An Taisce Clean Coasts Programme

Clean Coasts Ireland engages communities in the protection of Ireland's beaches, seas and marine life. It runs campaigns such as Think Before You Flush, Two Minute Beach Clean, and Two Minute Street Clean. Its website provides info-graphics on the sources and impacts of marine litter. See **www.cleancoasts.org**

The United Nations Environmental Programme

This website has information on marine issues plus a series of 2-min videos produced in association with Jim Toomey, based around marine environmental topics. See **www.rona.unep.org/toomey**

The National Oceanic and Atmospheric Administration (NOAA)

This website has a huge range of educational materials including the NOAA ocean today series. Check out the NOAA education section. See **www.noaa.gov/education** and **www.noaa.gov/education/for-educators**

NASA Climate Kids

This website includes lots of great facts and information about the climate, including a section on the Oceans, Ocean Acidification and Climate Change. See http://climatekids.nasa.gov/menu/ocean/

MARLISCO - Marine Litter in European Seas - Social Awareness and Co-responsibility

The MARLISCO Programme (an EU funded project) highlights the sources and impacts of marine litter. The website provides an excellent five minute video that explains the sources and impacts of marine litter. It also has free educational packs. See **www.marlisco.eu**

SEA FOR SOCIETY - BLUE SOCIETY.ORG - Your Ocean Your Future

The Sea for Society (EU funded project) provides a range of excellent promotional materials including posters, videos, booklets and an animation series about creating a blue society. Check out the media section for short film: "Towards a Blue Society" and the animated series: The Ocean & Oxygen, The Ocean & Fresh water, The Ocean & Food, The Ocean & Leisure, The Ocean & Manufactured Goods, The Ocean & Culture, The Ocean & Communication. Also check out blue.society.org for additional tools such as "take the quiz"

See www.seaforsociety.eu and www.bluesociety.org/take-the-quiz_2

Sea Change Project - Our Ocean Our Health

The EU project Sea Change aims to educate the public on marine issues to promote responsible behaviour towards the marine environment and its resources. Check out its section on Education and Lifelong learning which includes a database of other educational materials. See **www.seachangeproject.eu**

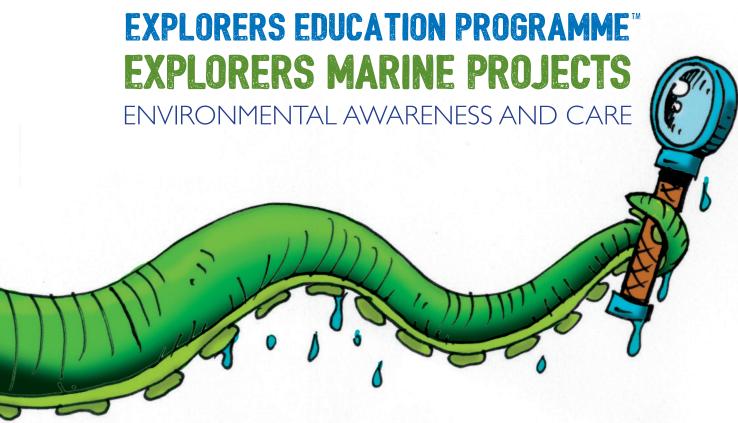
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WWW.EXPLORERS.IE



