



Explorers Education Programme™

Date	Class Fifth and Sixth Class	Subject Geography
Strand Environmental awareness and care		Strand Unit Environmental awareness, Caring for the environment
Title Explorers Caring for our Ocean Action Board		
Objectives The aim of the lesson is for children to 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 at a local, national and global level.		
Skills Required The children will need to communicate effectively amongst their groups so to share their opinions. The children will be expected to co-operate with each other and respect others ideas and opinions.		
Learning Objectives: This lesson plan may need to be carried out over several periods as a project. <i>The child should be enabled to:</i> <ol style="list-style-type: none"> 1. Recognise aspects of human activities which may have positive or an adverse effect on the ocean. 2. Explore the inter-relationships of human life and the ocean. 3. Identify and discuss the solutions to the local, national and global environmental issues that affect the ocean. 4. Come to appreciate the individual, community and national responsibility for caring for the ocean. <p>See below of images of the action board can be used as part of the class activity.</p>		Learning Activities Talk and Discussion <p>The teacher will elicit from the children reasons as to why the ocean is important to humans (e.g. it provides over half the oxygen we breathe, it affects our climate, we use the ocean to transport goods around the world - trade, it provides us with food, energy and jobs, leisure such as going to the seashore, swimming and water sports).</p> <p>The children will then think/pair/share on "how the ocean has an influence on me and how I have an influence on the ocean". The teacher will invite pairs to share their suggestions.</p> <p>The teacher will begin a discussion with the children based on the topics listed below. The children can be given the opportunity to think/pair/share on the following topics:</p> <ul style="list-style-type: none"> • What are some awesome facts about

	<p>the ocean?</p> <ul style="list-style-type: none"> • How does plastic affect the ocean and the animals that live in it? • Can I prevent plastic from entering the ocean? • How does burning fuels for energy affect the ocean? • Can I protect the ocean by reducing my carbon footprint? • Who looks after our local seashore? • How can I prevent litter from entering the ocean and keep my local beach clean? • What is sustainable fishing? • How can I support sustainable fishing and marine industries? <p>Brainstorming</p> <p>The teacher will write 'How can we care for the ocean'? on the board. The children will think/pair/share. The teacher will invite pairs to share their suggestions. The teacher will write their suggestions on the board.</p> <p>Once the teacher can see that the children understand how their actions influence the ocean environment, the teacher will then discuss with the students what actions can be taken to create change such as helping care for the ocean. The children will make the suggestions while the teacher writes them on the board.</p> <p>The teacher and students should discuss what can be done straight away:</p> <ul style="list-style-type: none"> • What will I do today? • What can be done over the next week? • What will I do next week?
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	<ul style="list-style-type: none"> • What can be done over the next month <p>Suggestions will be written on the board.</p> <p>The children will partake in a class discussion on whether the ideas suggested will help the ocean.</p> <p>The class should collectively vote on what actions the class will complete together to create change and a caring ethic for the ocean.</p> <p>Encourage the students to come up with their own ideas of sharing their message of the importance of environmental care.</p> <p>Additional class activities may include:</p> <ul style="list-style-type: none"> • introducing reduce, reused or recycling approach in the classroom; • create a postcard campaign sending a message to industries, companies, to reduce the use of plastics • support sustainable fishing and marine industries; • adopt a beach and complete a beach clean. <p>Caring for Our Marine Environment Action Board</p> <p>The “EXPLORERS CARING FOR OUR OCEAN ACTION BOARD” can be displayed to the class. The students are to examine the board to see if there are any areas that they can care for the ocean that they did not think of.</p> <p>This poster may be downloaded from www.explorers.ie. Alternatively, get the students to design their own Marine Environment Action Board.</p>
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	<p>The children will then be given stickers or can tick the areas of the actions on the board they are going to take part in.</p> <p>Talk and Discussion</p> <p>Once every child has placed a sticker or mark beside the actions they will take, the teacher will invite them to explain to the person beside them how they are going to achieve this action. Pairs can then share what they have been discussing.</p> <p>The children can then fill in the box provided on the action poster of additional actions they can take to care for the ocean.</p> <p>Resources</p> <ul style="list-style-type: none"> • “EXPLORERS CARING FOR OUR OCEAN ACTION BOARD” (Pdf available on www.explorers.ie) • Stickers • Paper and markers • Also complete a web search on plastic tide, micro plastics, and ocean rescue for more information relating to campaigns to protect our marine environment.
<p>Differentiation</p> <p>Teacher Questioning – The teacher will ask the children higher and lower order questions depending on their abilities.</p> <p>Group-work – The teacher will place the children in groups depending on their abilities.</p>	
<p>Assessment</p> <p>Teacher observation – The teacher will observe and listen to the children as they are discussing in their pairs so to see if they understand the influence the ocean has on them and their influence on the ocean.</p> <p>Teacher questioning – The teacher will ask questions throughout the lesson so to assess their understanding of the topic.</p>	
<p>Linkage and Integration</p> <p>Science – Environmental awareness and care; Caring for the environment</p> <p>English Oral Language – The children will be explaining to the class and to their pair how they can help care for the ocean.</p> <p>Art – The children can create their own action posters, postcard campaigns, sculptures, etc.</p>	




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using paint and colour, fabric and fibre, construction (e.g. recycled items, etc.)

Irish – Children can use the Irish action board to complete this lesson plan.

SPHE – Children can learn about “myself, others and the wider world” looking at activities relating to their school community, environmental care, world issues.




EXPLORERS CARING FOR OUR OCEAN ACTION BOARD




Tick the boxes to show what you and your class will do for the ocean.


WHAT MY CLASS WILL DO TODAY



WHAT MY CLASS WILL DO IN THE NEXT WEEK



WHAT MY CLASS WILL DO IN THE NEXT MONTH



I WILL LET MY FRIENDS AND FAMILY KNOW SOME AWESOME FACTS ABOUT THE OCEAN

- The ocean covers 70% of the planet
- There is more volcanic activity under the ocean than on land
- The biggest animal on Earth is called the blue whale and measures up to 30 metres long
- Only 5% of the ocean has been explored
- Over one thousand marine species are being discovered by marine scientists each year

I AM GOING TO LEARN HOW THE OCEAN AFFECTS ME AND HOW I AFFECT THE OCEAN

- Over half the oxygen we breathe comes from a microscopic plant called phytoplankton that lives in the ocean
- The ocean affects our climate and rainfall which influences our weather
- The ocean provides us with fresh water through the water cycle
- Sadly, over 8 billion tons of plastic is dumped in the ocean around the world every year which affects the marine habitats and animals
- The ocean absorbs carbon from the atmosphere causing climate change and ocean acidification

I WILL PREVENT PLASTIC FROM ENTERING THE OCEAN BY REDUCING, REUSING AND RECYCLING PLASTIC

- Use a reusable water bottle and lunch container
- Use reusable shopping bags
- Reduce buying products that use plastic packaging
- Check the labels and avoid using products that use micro-plastics (beads) in them, such as some soaps, shampoos and toothpaste
- Place plastic litter in a recycling bin

I WILL HELP TO PROTECT THE OCEAN BY REDUCING MY CARBON FOOTPRINT

- Use less electricity, such as turning off lights, plugging out the phone charger, TV and the computer when not in use
- Use less carbon fuels for heating and put on a jumper and socks when it gets cold
- Use less carbon fuels for transport by walking, cycling, carpooling or use public transport

I WILL HELP PREVENT LITTER FROM ENTERING THE OCEAN AND KEEP MY LOCAL BEACH CLEAN


- Take all of my belongings and rubbish with me after visiting the seashore
- Volunteer to take part in a local beach clean
- Organise a poster campaign to prevent littering
- Encourage my school to "adopt" a beach to help care for our local environment


I WILL SUPPORT THE SUSTAINABLE FISHING AND MARINE INDUSTRIES

- Eat fish and buy marine products from sustainable fisheries
- Buy marine souvenirs that don't exploit endangered species, such as corals and some shells

What else can my class do to care for the ocean?

Poster by Cathla Dromgoole-Rogan & Kelsie Dobey. Images by John Joyce.


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EXPLORERS


CÚRAM DÁR N-AIGÉAN

CLÁR GNÍMH




Cuir tic sna bosca le taispeáint cad a dhéanfaidh tú féin agus do rang ar mhaithe leis an aigéan.


CAD A BHEIDH AR SIÚL AG MO RANG INNIU



CAD A BHEIDH AR SIÚL AG MO RANG AS SEO GO CEANN SEACHTAINE



CAD A BHEIDH AR SIÚL AG MO RANG AS SEO GO CEANN MÍOSA



TABHARFAIDH MÉ EOLAS FÍOR-SPEISIÚIL DO MO CHAIRDE AGUS DO MO GHAOLTA MAIDIR LEIS AN AIGÉAN

- Tá 70% den phláinéad san aigéan • Tá níos mó gníomhaíocht bhoicínach faoin aigéan ná mar atá ar thalamh • Tugtar an t-ainm míol mór gorm ar an ainmhithe is mó ar Domhan agus é suas le 30 méadar ar fad • Níl taiscálaithe ach 5% den aigéan • Tá eolaithe mara ag fhionnadh ar níos mó ná míle speiceas mairtí gach bliain

GHEOBHAIDH MÉ AMACH CÉN TIONCHAR ATÁ AG AN AIGÉAN ORMSA AGUS CÉN TIONCHAR ATÁ AGAMSA AR AN AIGÉAN

- Tagann os cionn leath den ocsaigin a thugaimid isteach ó phlanda micreascópach a chónaíonn san aigéan • Bíonn tionchar ag an aigéan ar ár n-aeráid agus ar thitim báistí agus bíonn tionchar aige sin ar an aimsir a bhíonn againn • Tugann an t-aigéan uisce úr dúinn tríd an timthriall uisce • Dumpáiltear os cionn 8 billiún tonna plaisteach san aigéan ar fud an domhain gach bliain rud a chuireann isteach ar ghnéithe agus ar ainmhithe na mara • Súnn an t-aigéan isteach carbón ón atmaisféar rud is cúis le hathrú aeráide agus le haigéadú an aigéin

STOPFAIDH MÉ PLAISTEACH Ó DHUL ISTEACH SAN AIGÉAN TRÍ PHLAISTEACH A LAGHDÚ, A ATHÚSÁID AGUS A ATHCHÚRSÁIL

- Is féidir liom buidéal uisce agus bosca lón a athúsáid • Is féidir liom málaí siopadóireachta a athúsáid • Níl ceannaigh an oiread táirgí a úsáideann pacáistí plaisteach • Seiceáil na lipéid agus ná húsáid táirgí ina n-úsáidtear micreaphlaisteach (cloichín), cosúil le roinnt gallúnach, seampú agus taos fiacla • Cuir bruscar plaisteach i mbosca athchúrsála

CABHRÓIDH MÉ CHUN AN T-AIGÉAN A CHOSANT TRÍ MO LORG CARBÓIN A LAGHDÚ

- Ná húsáid an oiread leictreachais, mích soilse, tarraing amach an luchtair fóin, an teilifís agus an ríomhaire nuair nach mbíonn siad in úsáid • Ná húsáid an oiread breoslaí carbóin i gcomhair teasa agus cuir geansaí agus stocaí ort féin nuair a áiríonn an aimsir fuar • Ná húsáid an oiread breoslaí carbóin i gcomhair iompair agus tóigh ag siúl, ag rothlaocht, roinn carr le duine eile nó bain úsáid as iompar poiblí

CABHRÓIDH MÉ CHUN COSC A CHUR AR BHRUSCAR ATÁ AG DUL ISTEACH SAN AIGÉAN AGUS CHUN MO THRÁ ÁITIÚIL A CHOINNEÁIL GLAN


- Tabharfaidh mé mo chuid rudaí agus mo bhruiscar liom • Beidh sásta oim chun páirt a ghlacfaidh i nglanadh suas trá • Eagróidh mé feachtas póstaíoch chun cosc a chur ar chailteamh bruscair • Spreagfaidh mé an scoil chun trá a tháirgeadh chun aire a thabhairt dár dtimpeallacht áitiúil

TACÓIDH MÉ LEIS NA TIONSCAIL IASCAIREACHTA AGUS MUIRÍ INBHUANAITHE

- Iosfaidh mé lasc agus ceannóidh mé táirgí mairtí ó lascaigh inbhuanaithe • Ceannóidh mé earraí cuimhneacháin nach ndéanann dúshaothrú ar speicis atá i mbaoil, cosúil le coiréil agus roinnt sliogán

Cad eile is féidir le mo rang a dhéanamh chun aire a thabhairt don aigéan?

Póstaí le Cúlaile Dromgcol Agan & Róisín Dobey, fóinmhara le John Joyce.

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