







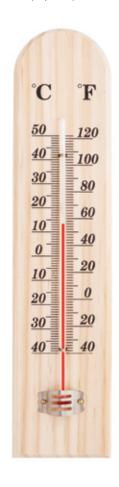


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KEEP NORTHERN IRELAND BEAUTIFUL



### **ECO-SCHOOLS**

IMRÍONN AN TATHRÚ AERÁIDE AGUS TEAGMHAIS ADHAIMSIRE (TEAGMHAIS AIMSIRE ATÁ AS AN GHNÁCH) TIONCHAR AR GO LEOR GNÉITHE DEN SAOL LAETHÚIL AGAINN. DRUIDTEAR SCOILEANNA, BÍONN TIONCHAR AR SHLÁINTE DALTAÍ AGUS MÚINTEOIRÍ AGUS AR FHOGHLAIM NA NDALTAÍ AGUS CUIRTEAR ISTEACH AR GHNÍOMHAÍOCHTAÍ SCOILE. NÍ MÓR DO SCOILEANNA IAD FÉIN A CHUR IN OIRIÚINT LE HÍOSLAGHDÚ A DHÉANAMH AR THIONCHAIR AN ATHRAITHE AERÁIDE!

DR PATRICE CAIRNS, CLIMATE NI

#### Intreoir Cad é an rud Athrú Aeráide?

Is ionann an bhithéagsúlacht agus an réimse mór leathan d'fhiadhúlra atá sa domhan thart timpeall orainn – muid féin san áireamh – ó bhláthanna agus feithidí fiáine go dtí mamaigh agus éin, na coillte uilig, na cluainte, na bogaigh agus gnáthóga nádúrtha eile, mar aon le háiteanna atá déanta ag daoine, amhail fáschoillte. Go liteartha, ciallaíonn Bithéagsúlacht "cineálacha difriúla beatha". Tá an bhithéagsúlacht lárnach sa tuiscint atá againn ar fhorbairt inbhuanaithe agus ar chur chun cinn na forbartha inbhuanaithe, nó gan tuiscint ar an bhithéagsúlacht, chuirfeadh muid na córais uilig a chothaíonn an timpeallacht s'againn i mbaol.

Tá an bhithéagsúlacht ríthábhachtach mar go mbíonn tionchar aici ar shaol gach duine againn, go díreach agus go hindíreach. Bíonn réimse d'acmhainní bunúsacha de dhíth ar gach speiceas – daoine san áireamh – lena gcoinneáil beo beathach. Bíonn ocsaigin de dhíth ar dhaoine le hanálú, uisce le hól, bia le hithe agus bíonn foscadh de dhíth orainn ón aimsir. Faighimid cuid mhaith de na rudaí seo ó na rudaí beo ar an phláinéad s'againn. Tá sé ríthábhachtach mar sin de, má tá an cine daonna le maireachtáil, go ndéanfaidh muid na rudaí beo eile seo a chaomhnú. Is amhlaidh, áfach, go mbíonn tionchar diúltach ag cuid mhaith de ghníomhaíochtaí na ndaoine ar an bhithéagsúlacht fud fad na cruinne.

#### Cruinniú Mullaigh ar an Athrú Aeráide - Feabhra, 2013

Tháinig daltaí de chuid scoileanna as gach cearn den Tuaisceart le chéile le Cruinniú Mullaigh ar an Athrú Aeráide a reáchtáil ag Tithe na Parlaiminte ag Stormont. Ar an 14ú Feabhra, 2013, dhírigh siad aird ar éifeachtaí an Athraithe Aeráide i dTuaisceart na hÉireann agus fud fad na cruinne. Déanann daoine óga sa Tuaisceart a gcion féin le dul i ngleic leis an Athrú Aeráide trí thionscadail de chuid Éicea-Scoileanna, lena n-áirítear bheith ag coigilt fuinnimh, ag laghdú ar dhramhaíl agus ag forbairt gairdíní scoile. B'ócáid speisialta é an cruinniú seo le plé a dhéanamh ar cheist an athraithe aeráide agus mar chuid de, léirigh scoileanna torthaí taighde a rinne siad ar cheisteanna i dtaca le hathrú aeráide i dtíortha ar fud an domhain trí chuir i láthair dhathannacha agus trí thaispeántais nuálacha.

## larmhairt Ceaptha Teasa (Éifeacht an Tí Gloine)

Tá brat de gháis thart timpeall ar an phláinéad seo a choinníonn dromchla an domhain te go leor le go dtig le plandaí agus ainmhithe maireachtáil ar domhan. Ligeann na gáis seo san atmaisféar, dé-ocsaíd charbóin san áireamh, do sholas na Gréine teacht isteach in atmaisféar an domhain ach ceapann siad cuid mhaith den teas – ní ligeann siad amach é. Gan an ceapadh teasa seo, nó éifeacht an tí gloine, mar a thugtar air, bheadh an pláinéad s'againn i bhfad níos fuaire: b'ionann an mheánteocht ar dhromchla an domhain agus thart ar -18°C. Ardaíonn na gáis ceaptha teasa san atmaisféar teocht an Domhain le 33°C go dtí an mheánteocht dhomhanda de 15°C atá againn faoi láthair.

Click here to view Climate Change Video









KEEP NORTHERN IRELAND BEAUTIFUL



### **ECO-SCHOOLS**

## Cad chuige ar gá dúinn bheith buartha, mar sin?

Cad chuige, mar sin de, a bhfuil daoine chomh buartha sin faoin Athrú Aeráide – más rud é an ceapadh teasa seo a tharlaíonn go nádúrtha agus atá ag tarlú ó cruthaíodh an Domhan? Cad é an tionchar atá ag daoine, agus ag stíl bheatha na ndaoine, ar an scéal? Is é an difear is mó idir an téamh domhanda atá ag tarlú anois agus athraithe aeráide eile a tharla roimhe seo i stair an domhain ná go bhfuil an t-athrú ag tarlú i bhfad níos gasta.

### Operation Energy – Climate Change Lesson Plans and Resources

#### Cosa Éiceabhácha (Eco-Friendly Feet)

Cuideoidh an ceacht seo le daltaí machnamh a dhéanamh ar dhóigheanna ina dtig leo laghdú ar an lorg carbóin acu. Cuirfidh daltaí tuiscint ar na dóigheanna a gcuireann gach aon duine againn leis an athrú aeráide.

#### Planet Cool - súil ar an téamh domhanda

Sa cheacht seo, déanfaidh daltaí forbairt ar a dtuiscint ar athrú aeráide agus ar an tionchar a bhíonn aige ar an timpeallacht. Is féidir teacht orthu seo agus iad a íoslódáil lena n-úsáid le linn cuairt scoile ag

www.operation-energy.com

### Tús Maith, Leath na hOibre

Tagann an mhórchuid den ghás a dhéanaimid nó na hastuithe gáis mar a thugtar orthu, CO2 go háirithe, as dó breoslaí iontaise, amhail gual, gás agus ola. Úsáidtear breoslaí iontaise go príomha faoi choinne an iompair (carranna srl.), faoi choinne teasa agus le leictreachas a ghiniúint. Achan uair a chuirimid an raidió nó an teilifís sa siúl, achan uair a lasaimid tine nó théimid chuig na siopaí, tá muid ag cur le méadú ar an CO2 san atmaisféar s'againn. Ar an dóigh chéanna, tá baint ag an chuid is mó de na hearraí a cheannaímid, bealach amháin nó bealach eile, le hastuithe CO2, bíodh sé trí phacáistiú an earra, an dóigh a ndearnadh é nó an dóigh ar iompraíodh chuig an siopa é - nó na trí rud seo. Tá san áireamh anseo na torthaí agus glasraí trópaiceacha a cheannaímid nó na torthaí agus na glasraí a cheannaímid 'as séasúr' nó in amanna tagann na rudaí seo bealach fada sula mbaineann siad an chistin s'agat amach.

Mar sin de, más féidir linn bearta ar bith a dhéanamh le laghdú ar an mhéid CO2 a chuirimid amach, is amhlaidh go mbeidh muid ag maolú ar thionchar ar athraithe aeráide. Ar na bearta seo, bheadh laghdú a dhéanamh ar an mhéid fuinnimh a úsáidimid faoi choinne iompair, lenár gcuid foirgneamh a théamh srl. Is feiniméan domhanda é an tAthrú Aeráide, mar sin de, trí staidéar a dhéanamh ar a éifeachtaí ag leibhéal áitiúil agus idirnáisiúnta, bímid in ann feasacht a chothú ar an cheist agus meon agus iompraíocht daoine a athrú maidir lena lorg carbóin a fheabhsú.

Mar atá amhlaidh leis an topaicí eile uilig atá mar chuid den chlár Éicea-Scoileanna, caithfidh muid Plean Gníomhaíochta a fhorbairt i ndiaidh dúinn an tAthbhreithniú Timpeallachta a dhéanamh. Seans gur smaoineamh maith é teagmháil a dhéanamh leis an chomhairle áitiúil nó le roinnt de na heagraíochtaí comhpháirtíochta Éicea-Scoileanna nó b'fhéidir go mbeadh smaointe acusan maidir le tionscadail áitiúla a bhféadfadh an scoil s'agatsa bheith páirteach iontu.













## Case Study

School: Glenlola Collegiate College	Teacher: Jacquie Milligan
No. of pupils:	Eco-School status:  Green Flag

#### **Background Information**

## Q: Why did you choose Climate Change as an Eco-Schools topic? What was your Action Plan?

A:

- Marine issues are very topical at Glenlola Collegiate given the school's coastal location. The Climate Change topic is studied in many areas of the curriculum, so it provides an ideal opportunity for cross-curricular projects. The human effects on our immediate environment may be affecting species in a way that cannot be anticipated, with a knock-on effect on other populations of plants and animals.
- The pupils and teachers are interested in the impact of Climate Change on the marine environment, especially with an emphasis on sustainability of fish stocks. We have worked with staff from the Co-Op to develop novel recipes using sustainably sourced fish.
- Impact on tern population on the shores of Belfast Lough and the impact of Climate Change on the food supply of the terns. i.e. the migration of sand eels further north in response to warmer sea temperatures. This has led to our partnership with Sakumono Junior High School in Tema (near Accra), Ghana. Pupils have worked together to research how we can minimise the effects of Climate Change on our environment by encouraging communities to adopt more sustainable practices.

### Q: How do you integrate Climate Change into the curriculum?

A:

■ Arts and Science: Promoting biodiversity in Marine habitats by participation in a 'SciArt' project, working alongside students and staff from St Mary's Teacher Training College, Belfast. Year 10 pupils participated in a lobbying event at Stormont, organised by the Marine Task Force. The girls handed over a petition to the Environment Minister with the plea to 'Save Our Seas!'

- **Geography:** Reduce, Reuse, Recycle (clothes design/catwalk project).
- **Science:** Transport reduction of emissions due to combustion of fossil fuels. School now has PV cells on the roof so that some of our electricity is supplied by solar power.
- Science: Year 9 Hydrogen car project.
- School participation in 'Cash for Clobber' fundraiser and also recycling of school uniforms, in association with our PTA.









## Case Study

## Q: How do you co-ordinate with other teachers to ensure a whole school approach?

#### A:

- Assemblies pupils share information about projects they are involved with. The petition that was handed in to the Environment Minister was initiated at a school assembly.
- Eco-Schools Noticeboard the Council, with representatives from each year group, posts information about school participation in different projects, including the results of pupils' research.
- **School Council** the year group representatives ensure whole-school participation.





## Q: How did you encourage pupil participation? How did they have ownership of the project?

#### Α

- All Eco-Schools projects are entirely student-led, with teachers involved as facilitators, where necessary. Pupils volunteer for various projects and organise their own activities, developing many transferable skills in the process. Managing such projects also increases pupils' independent learning and thinking skills beyond their work in the classroom.
- Participation in 2013 Eco-Schools Climate Change Summit at Stormont.
- Direct lobbying for a Northern Ireland Marine Bill at Stormont. Pupils from GCS have been among the first young people in N Ireland to be invited to address Stormont Committees, including the Environment Committee and Agricultural Committee.
- Pupils won the Impact 2012 Awards (organised by the Office of the First Minister and Deputy First Minister) for their work on highlighting environmental issues.
- Year 10 'Research Group' completed research into Seaweeds and designed new swatch cards for use by Ulster Wildlife Trust for their Shore Thing Project and by visiting students from the USA.









## Case Study

## **During Implementation of Eco-Schools Inspiration case study**

## Q: How will pupils/whole school benefit from the Eco-Schools Inspiration project?

A

- Participation in a research project on seaweeds and impact of Climate Change on marine species will develop the skills and subject knowledge of pupils involved.
- Results presented to school and also forwarded to the University of Southampton for inclusion in a national database. So pupil's fieldwork is contributing to the body of knowledge in the science community, through the assistance of Ulster Wildlife Trust.
- Field Trips will be undertaken by pupils from different year groups (Y10, 11, 13 and 14) who will all benefit from the Seaweed Identification Cards created as part of this Eco-Schools Inspiration project.
- Visits from experts from Ulster Wildlife Trust will improve knowledge of both pupils and staff and allow pupils to understand the relevance of scientific surveys in the real world. This also provides an opportunity for pupils to learn about different careers in environmental science by working alongside professional scientists.

## Q: What is your overall aim and what actions are you going to take?

A:

- Research on native species of seaweed at a local coastal location, Groomsport.
- Production of ID cards/swatches for local seaweed species to be used for teaching GCSE and Advanced level Biology classes.

#### Q: How are you going to spend the £500 funding?

Δ.

- Fieldtrip to Groomsport for 14 year 10 students cost of minibus.
- Design and print of ID cards professional printing costs.



# Q: Are you going to receive any support or resources from parents, staff or outside agencies?

A:

- Ulster Wildlife Trust.
- Keep Northern Ireland Beautiful Eco-Schools.
- North Down Borough Council Biodiversity Officer.
- Department of the Environment.









## Case Study

#### Reporting on impact of action(s)

#### Q: Did you encounter any problems and, if so, how did you overcome them?

A: There were no particular problems with the implementation of the Climate Change project. The only issue was identification of an appropriate time for the Y10 research group to visit Groomsport Beach for training in the use of keys. Senior staff in school were supportive of the project and permitted teaching staff to accompany pupils to the beach, providing cover for missed classes. Pupils travelled by school minibus to minimise costs.

#### Q: Is there any advice you could offer to schools undertaking the Climate Change topic? Do you have any useful suggestions for other teachers embarking on the topic?

A: Participation in the 'Shore Thing' species survey under the supervision and guidance of staff from Ulster Wildlife Trust is excellent preparation for a study of the local effects of Climate Change. It may also be useful to get in touch with your local Council Biodiversity Officer for information on your immediate environment and the aims of the Council regarding monitoring/reducing the

#### Q: Has doing this topic driven other Eco-Schools ideas? What are your future plans regarding **Eco-Schools?**

A: We plan to extend the activity by using the species identification cards in A level Biology field work on the 'rocky shore'. This project will be carried out with pupils from Tallwood High School, our partner school in Virginia Beach, USA. The effect of Climate Change on native species will also be carried out around the Chesapeake Bay area.









## Case Study

We can estimate the average production of carbon dioxide over time by a school through looking at energy consumption (electricity, oil, etc.), waste production (both for landfill and recyclables), travel (miles travelled by bus, car etc.), and water consumption. A carbon calculator will use conversion factors to convert the recorded values - be it for energy, waste, travel or water - into a final figure for CO2 emissions. By calculating this figure, it should then be easier to try to make changes, specifically in the areas mentioned, in order to reduce the impact the school may be having on climate change.

To evaluate and measure progress made in the climate change topic please complete the sections below at the beginning of your work on the climate change topic before any actions were implemented and results obtained near the end of your of work on the climate change topic.

change topic.			
	Audit 1	Audit 2	
	Date 2011	Date	
Litter & Waste			
1. Waste going to landfill 32000 kg/year x 1.5 (conversion factor)	= <u>48000</u> kgCO <sub>2</sub>	= kgCO <sub>2</sub>	
2. Waste for recycling 20000 kg/year x 0.3 (conversion factor)	= <u>6000</u> kgCO <sub>2</sub>	= kgCO <sub>2</sub>	
3. Compost (carbon neutral) kg / year x 0 (carbon neutral)	= kgCO <sub>2</sub>	= kgCO <sub>2</sub>	
Total CO <sub>2</sub> emissions from Waste	= <u>54000</u> kgCO <sub>2</sub> /year	= kgCO <sub>2</sub> /year	
Energy			
1. Electricity (Kilowatt-hours) 484096 kWh / year x 0.6	= <u>290458</u> kgCO <sub>2</sub>	= kgCO <sub>2</sub>	
2. Natural Gas (Kilowatt-hours) <u>1070000</u> kWh / year x 0.19	= <u>204076</u> kgCO <sub>2</sub>	= kgCO <sub>2</sub>	
3. Natural Gas (therms) therms / year x 5.5	= kgCO <sub>2</sub>	= kgCO <sub>2</sub>	
4. Oil (litres) litres / year x 2.69	= kgCO <sub>2</sub>	= kgCO <sub>2</sub>	
Total CO <sub>2</sub> emissions from energy consumption	= <u>494534</u> kgCO <sub>2</sub> /year	= kgCO <sub>2</sub> /year	
Transport (total for all staff and students)			
1. Miles travelled by petrol car 10000 miles/year x 0.36	= <u>3600</u> kgCO <sub>2</sub>	= kgCO <sub>2</sub>	
2. Miles travelled by diesel car <u>15000</u> miles/year x 0.28	= <u>4200</u> kgCO <sub>2</sub>	= kgCO <sub>2</sub>	
3. Miles travelled by bus 20000 miles/year x 0.03	= <u>600</u> kgCO <sub>2</sub>	= kgCO <sub>2</sub>	
4. Miles travelled by train 10000 miles/year x 0.1	= <u>1000</u> kgCO <sub>2</sub>	= kgCO <sub>2</sub>	
5. Miles travelled by bike/foot 2000 miles/year x 0	= Q kgCO <sub>2</sub>	= kgCO <sub>2</sub>	
Total CO <sub>2</sub> emissions from transport to and from school	= <u>9400</u> kgCO <sub>2</sub> /year	= kgCO <sub>2</sub> /year	
Water			
1. Total water consumption 11000000 litres / year x 0.001	= <u>11000</u> kgCO <sub>2</sub> /year	= kgCO <sub>2</sub> /year	
TOTAL CO <sub>2</sub> PRODUCTION PER YEAR = Sum of above totals	= <u>568934</u> kgCO <sub>2</sub> /year	= kgCO <sub>2</sub> /year	
Total CO <sub>2</sub> /number of staff & students	= <u>474</u> kgCO <sub>2</sub> /person/year	= kgCO <sub>2</sub> /person/yea	
Total CO <sub>2</sub> /m <sup>2</sup> of school building(s)	= <u>37.6</u> kgCO <sub>2</sub> /m2/year	= kgCO <sub>2</sub> /m2/year	







#### **ECO-SCHOOLS**

## Curriculum Links and Skills

The Climate Change topic allows you to incorporate and promote **Thinking** Skills & Personal Capabilities and Cross-Curricular Skills into your lessons.

### **Lesson Suggested Learning Intentions**

(taken from W.A.U. strands on Northern Ireland Curriculum website)

#### Strand 1: Interdependence

'How lifestyle choices can affect the health of themselves and others (S&T); about the effects that people's actions have on the natural environment (S&T) (G); to be aware of the changes in their local environment over time (H).

#### Strand 2: Movement and Energy

'The advantages and disadvantages of renewable and non-renewable energy sources (G); about global energy issues (G); how human activities affect habitats and ecosystems (S&T) (G); about the impact of famine, floods etc. on the everyday lives of people in place (H) (G); the effects of natural disasters and / or extreme weather on places and people who live there (G).'

#### Strand 3: Place

'How weather affects the lives of people and animals here and elsewhere (G); how seasonal change affects the behaviour of animals and plants (S&T); that extreme weather affects the lives of people here and elsewhere (G); that weather can cause change over time (G); about the ways in which people may conserve and change the environment both locally and globally (G).

#### Strand 4: Change Over Time

'How long or short term climatic changes are impacting on our environment (G) (S&T); about how changes in the climate have been brought about (G); that there are things we can do to prevent pollution and the production of waste (G).'

## **Using Mathematics**

Example: Study the figures that have been compiled by scientists in support of Climate Change. Ascertain how they made these predictions and work out alternative scenarios

#### **Being Creative**

Example: Make a video or prezi presentation about Climate Change and its likely impacts.

#### **Managing Information**

Example: Research Climate Change Impacts from different regions around the world, look at the impact of more powerful storms, flooding etc. How are these countries adapting to the pressures imposed by Climate Change.

#### Thinking, Problem-Solving and Decision-Making

Example: Complete a project on raising awareness of Climate Change to the school, promote behaviour that can reduce the amount of energy we use and CO2 we produce.

#### **Using ICT**

Example: Watch a video clip on Climate Change. Have pupils make notes on specific themes in a Word document.

# Self-Management

Example: Review work undertaken on the Climate Change topic, ask if the awareness raising has been successful and what other projects could be undertaken to reduce CO2 production.

## **Working with Others**

Example: Organise a Climate Change action day in school. Ask Climate organisations to attend to raise awareness of Climate Change at your school.

### Communication

Example: Make links with schools around the world to discuss the Climate Change topic. The international Eco-Schools connect website is a great way to find other Eco-schools around the world. Go to www.eco-schools-projects.org





# Primary Activity Ideas

## Language & Literacy

- Creating presentations on the Climate Change theme.
- Write a report on the impact of Climate Change and how we can change our behaviour to lessen our impact on the
- Write an article on Climate Change and how it impacts on
- Creating poems such as a Climate Change acrostic.
- Write an outline plan for improving your school Carbon
- Phonic work in the context of the theme of Climate Change.

### Talking & Listening

- Discuss video clips related to Climate Change.
- Carry out interviews with staff of organisations who are involved in the environmental sector on how Climate Change is likely to affect us. E.g. the impact of Climate Change on wildlife.
- Participate in group and class discussions about Climate Change and what society can do about
- Share, respond to and evaluate ideas, arguments and points of view about Climate Change and use evidence collated to make decisions about the Climate Change Topic.

#### Reading

- Gathering articles about Climate Change.
- Finding out about the impacts of Climate Change on Third World Countries in books and online.
- Consider, interpret and discuss texts, exploring the ways in which language can be manipulated in order to affect the reader or engage attention such as scientific articles and reports. The great Climate Debate.
- Collect a range of reading material for display which focuses on the Climate Change Topic.



#### Number

- Apply knowledge of percentage calculations to problem solving e.g. how big could temperature rises be?
- Undertaking measurements of local climate.
- Use the four operations to solve more complex word problems and puzzles involving numbers and measures related to a Climate Change investigation.
- Solve numerical problems relating to Climate Change.

#### Measures

- Undertake monitoring of how people travel to school, how many make the journey using sustainable modes? The Translink Eco-Schools Travel Challenge will help
- Monitor water use in the school.
- Monitor energy use in the school.
- Read and interpret simple graphs from the results and apply knowledge to solve related problems.

### Shape & Space

Investigate the shapes and sizes of icebergs, look at how ice forms and melts.

### **Handling Data**

- Make graphs, diagrams and charts of data related to the Climate Change Topic e.g. energy use in the school.
- Discuss, plan, collect, organise and represent data related to the Climate Change Topic e.g. how people travel to
- Insert data about the schools energy use into a prepared relevant computer database and interrogate.
- Discuss examples of Climate Change data represented in newspapers, magazines and multimedia sources.
- Carry out a simple class/school survey on travel, energy





## Primary Activity Ideas

### The World Around Us

#### Geography

- Find out how Climate has changed in different countries and how this has impacted on people.
- Look at the impact of flooding around the globe.
- Investigate which countries are the biggest contributors to Climate Change. E.g. which countries produce the most Greenhouse gases?
- Measure local weather conditions and compare these to different regions around the globe.
- Use maps to investigate global environmental impacts.

#### **History**

- How have climates changed locally and globally over time?
- Look at the changes in transport and industry over time.
- Talk to parents and grandparents about changes to weather in their lifetime

#### Science & Technology

- Research renewable energy sources. Visit a local renewable energy site.
- Look at the impact of Climate Change on animals and plants. e.g. temperature dependency of native species of seaweed or the occurrence of new species.
- Investigate advances in transport technology.
- Make wind mills.
- Investigate energy conversion.
- Look at examples of flood defence.
- Technology. e.g. drought resistant strains of crops.

### The Arts

#### Art & Design

- Make icebergs/igloos out of recycled materials.
- Design Climate Change posters and leaflets for use in promoting the Climate Change Topic.
- Draw maps of areas before and after flooding.

#### Music

- Create musical stories, pictures, patterns, conversations etc. based on a Climate theme or issue e.g. the sounds
- Listen to music that has been influenced by the weather E.g. Vivaldi's Four Seasons.

#### Drama

- Explore a range of cultural and human issues impacted by Climate Change by using drama to begin to explore their own and others' feeling about issues, and by negotiating situations both in and out of role.
- Use the Climate Change Topic to develop a range of drama strategies including freeze frame, tableau, hot seating, thought tracking and conscience alley.

### **Physical Education**

- Take part in cycle proficiency training.
- Taking part in walk and cycle to school events, such as the Translink Travel Challenge.

## Religious Education

Stewardship-Care for the planet, in particular the atmosphere and biosphere.



### Personal Development & **Mutual Understanding**

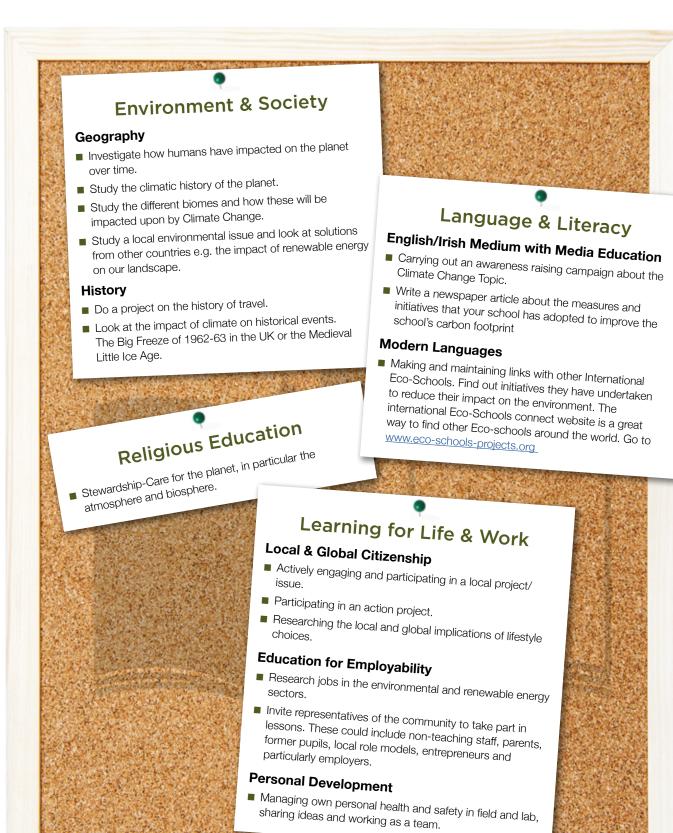
- Develop care for their local environment through playing an active and meaningful part in the life of the community e.g. litter pick or gardening in the local area.
- Role play how others experience the effects of Climate Change. How would you feel if your home flooded?
- Understanding health and safety on site.
- Actively taking care of self and others.
- Applying findings on Climate Change to the wider community.







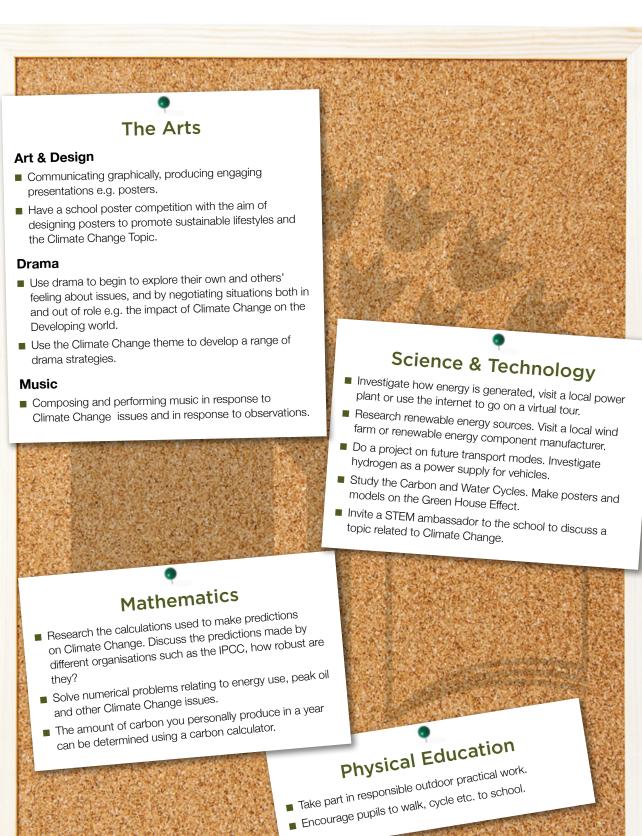
## Post-Primary Activity Ideas







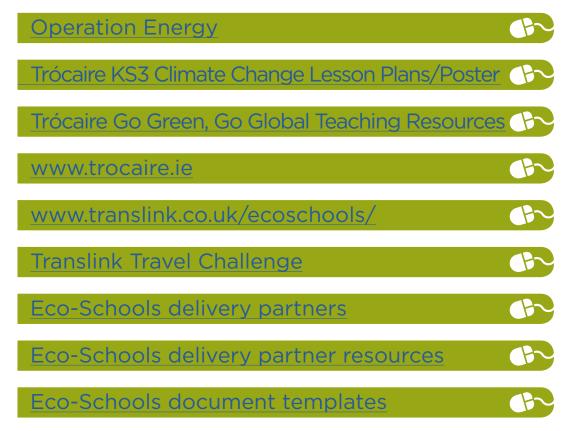
# Post-Primary Activity Ideas







## **Useful links**



Click on the link to visit the website

