

Climate Change

7 Lessons for 3rd and 4th Class (9-10 year olds)

Curriculum Links

S.E.S.E. Geography

Aims: - To enable the child to play responsible roles as an individual, a family member and a member of local, regional, national, European and global communities

- To foster an understanding of, and concern for, the total interdependence of all humans, all living things and the Earth on which they live

- To foster a sense of responsibility for the long-term care of the environment and a commitment to promote the sustainable use of the Earth's resources through his/her personal lifestyle and participation in collective environmental decision-making

Strand: Environmental Awareness and Care:

Environmental Awareness Caring for the Environment

Educate Together Curriculum

Aim: - To develop an ethical and reasoned approach to caring for the environment

Strand: Ethics and the Environment:

Knowledge and Awareness of Environmental Issues Understand the impact of the actions of people on the environment through the generations. Explore how we can enhance our environment for future generations through energy conservation, tree planting, preservation of habitats

Activation of Responsibility and Stewardship: Discover ways to move towards an environmentally friendly lifestyle such as turning off lights, reducing the amount of water used, recycling paper in the classroom and home.

These lessons were developed in a collaboration between Educate Together and Plan Ireland. The project was funded by Western Union.



Lesson Series:	1	2	3	4	5	6	7			
Location: Classroom Equipment Required: Projector with Internet Time: 45 minutes access WMnet Colin CO2, Irish flood video Worksheet 1 Vocab Matching Exercise, Extreme Weather Flashcards										
Objective: To introduce the concept of climate change, using examples both nationally and internationally.										
Introduction: (10 mins) Introduce topic of next 7 lessons: Climate Change. Ask children whether they have heard of it and brainstorm or discuss what it means to them. A KWL / Living Chart can be introduced at this point.										
Activity 1: (15 mins) Open internet explorer and go to WMnet Colin CO2 Explain that CO2 is the way that scientists refer to the smoke that comes from cars, airplanes, power stations - and that is also the air that humans breath out and trees breath in. Go through the online story of Colin CO2 which explains climate change in an understandable way, appropriate for 9-10 year olds. Make sure children grasp the link between CO2 (and other Green House Gases - GHGs) with climate change.										
 Activity 2: (15 mins) Irish Flood video – Six O'Clock or Nine O'Clock news report can be used. Double click on Play Clip button to avoid advertisement which precedes report and which may not be suitable for classroom viewing Write questions on the board before the video (for comprehension of video): What is the name of the town? (Clonmel) What is the first name of the Civil Defence volunteer? (Ronan) Do we see a man or a woman being evacuated from their home? (Woman) What can you see under water? (Cars, homes etc) NB. If difficulties with broadband speed or access are anticipated, this video can be downloaded form the RTE website and put on a memory stick. 										
Children to understand that climate change is a global issue (via the colin CO2 story) and that it will have effects in Ireland as well as overseas. Discussion if children have heard of any extreme weather around the world? Australian Fires,										
Landslides, Droughts. Hold up or display <u>Extreme Weather flashcards</u> to help. Conclusion: (<i>5 mins</i>) Worksheet 1 Vocab Matching Exercise. Ask children to link images to vocabulary. One copy can be printed off, laminated and used for clarification throughout unit.										
DEVELOPMEN	T EDUCATI	ON PROGE	RAMME OF	WORK						



Lesson Series:	1	2	3	4	5	6	7		
Location: Classroom Equipment Required: Printouts: Time: 30 minutes Worksheet 2 World Map, Worksheet 3 Flags Matching Exercise,									
Objective: To locate climate change in an international context.									
Introduction: (<i>10 mins</i>) Quick review or KWL / Living Chart of previous lesson. Project or display <u>Worksheet 2 World Map</u> with 6 countries on the board (Ireland, Kenya, Bangladesh, Philippines, Haiti, Sierra Leone) Ask children if they know any people or anything about these countries.									
Activity 1: (15 mins) Worksheet 3 Flags Matching Exercise. In pairs, ask children to match the flags to the countries displayed on on the board (ask children to use paper / their exercise books to avoid printing off extra copies) - Use class atlases to help if necessary.									
OR, Allocate each country a corner of the room - ask children to move to the corner that they think the flags match. Answers as follows:									
IRELAND	SIERRA LEC	DNE KE	NYA	HAITI	PHILIPI	PINES BA	NGLADESH		
Conclusion: (<i>5 mins</i>) Climate Change is happening all over the world. What kind of change do you think is happening in these countries?									



		-	4	5	6	7			
Location: Classroom Equipment Required: Printouts: Time: 30 minutes Worksheet 4 - Testimonies, Atlases									
Objective: To engender empathy towards those adversely affected by climate change.									
Introduction: <i>(5 mins)</i> Quick review or KWL / Living Chart of previous lesson. Ask class if they can remember countries and location of countries from previous lesson.									
	igender em <i>mins)</i> Quic puntries an	gender empathy towar <i>mins)</i> Quick review or puntries and location of	gender empathy towards those ad mins) Quick review or KWL / Livin puntries and location of countries f	Worksheet 4 -	gender empathy towards those adversely affected by clim mins) Quick review or KWL / Living Chart of previous less	Worksheet 4 - Testimonies, Atlases gender empathy towards those adversely affected by climate change mins) Quick review or KWL / Living Chart of previous lesson. Ask class pountries and location of countries from previous lesson.			

Activity 1: (10 mins) Hand out 1 testimony (Worksheet 4 - testimonies) from each country to each pair / group. (There are 6 testimonies. The testimony from Kenya is suitable for differentiated readers). Ask the children to read the young people's testimonies about the effects of climate change.

Activity 2: (10 mins) Ask each pair / group to feedback orally to the rest of the class: Who is the person in the story? Where are they from? What are the problems in their community? (This activity can be a written exercise)

Conclusion: *(5 mins)* Class discussion. The environmental changes can be linked to climate change (Colin CO2 story). Climate change happens because we all use too much CO2 and other green house gases. (GHGs)



Lesson Series:	1	2	3	4		5	6	7		
Location: Classro Time: 30 minutes	Location: Classroom Equipment Required: Projector with Internet Time: 30 minutes access to WMNet Eco home, or, Ecohome Worksheet or SE1 Energy Game									
Objective: To analyse own use of CO2										
Introduction: (5 mins) Quick review or KWL / Living Chart of previous lesson										
Tell class "Today we produce"	Tell class "Today we are going to talk about our environment in Ireland, and the amount of CO2 we produce"									
Class Question : "Does anyone know how we produce CO2?" Answer on board - "BY USING ENERGY" mind map if necessary (petrol for cars, electricity, for houses, food for people)										
Activity 1: (5 mi classroom.	Activity 1: (5 mins) Class energy survey. Make a note of everything that uses energy in our classroom.									
Activity 2: (5 mins) Write down or discuss as many ways as you can think of to reduce the energy we use in our classroom and school. Ideas: Turn computer monitor off, close the window and turn the heat down, turn some of the lights off, school buses turn off engines while waiting, turn off photocopier etc.										
A SEI Energy G	Activity 3: (10 mins) A. <u>SEI Energy Game</u> OR B. <u>Eco home</u> activity. A. <u>SEI Energy Game</u> . Follow on-line instructions to encourage the children to make decisions in each room in order to save energy.									
	OR, if the school does not have access to projector or interactive whiteboard, design an Eco- house (think about solar panels, energy saving bulbs, heating system, transport)									
OR, Table quiz /	'what if' exe	ercise of wri	tten scena	arios of Ec	o Ho	ome activity	,			
B. <u>Eco home</u> Op		on the proje	ector / inte	eractive wl	niteb	oard or con	nputer moni	tor.		
Select 'Key Stage 2' option. Encourage the children to make decisions in each room of the eco home in order to save energy. Calculate the total saving when they are finished by pressing the calculate button. <i>Please note</i> <i>the currency is Sterling rather than Euro</i> . Reinforce the learning point that saving energy is easy. The <u>Ecohome Worksheet</u> is available for schools without access to internet / computers available for students.										
Conclusion: (5 mins) Class finishes sentence: We can save energy by' OR We can reduce our contribution to global warming by'										



Lesson Series:	1	2	3	4	5	6	7			
Location: Classroom Equipment Required: Flash Cards , 1 packet of chocolate buttons Time: 30 minutes Chocolate buttons										
Objective: To intr	Objective: To introduce concept of per capita with regard to energy consumption.									
	Introduction: (5 mins) Quick review or KWL / Living Chart of previous lesson. How do we save energy in our homes and schools in Ireland?									
Activity 1: (20 mins) For this activity, our energy consumption is represented by counters or chocolate buttons. Divide class into 6 equal groups - send them to different parts of room. Each group represents one of the 6 countries, previously analysed. (Group holds up sign with 'Haiti', 'Bangladesh' etc.)										
	ounters	Chocolate								
Ireland :	80	10 buttons								
Philippines :	8	1 button	•							
Haiti :		Quarter of	f a button							
Bangladesh :	2 2 2	Quarter of								
Kenya :	2	Quarter of	a button							
Sierra Leone :	1	Crumb								
Group discussion: Is it fair? Ask students to use flash cards if required (fair / unfair).										
Conclusion: (5 mins) What have we learnt today?										



Lesson Series:	1	2	3	4	5	6	7			
Location: Classro Time: 30 minutes			5 M	Equipment Required: Population Sheet, Worksheet 5 Pie chart of CO2 per capita, Worksheet 3 Flags Matching Exercise, Worksheet 2 World Map, Flash Cards						
Objective: To re	Objective: To reinforce concept of per capita with regard to energy consumption									
Introduction: (5	Introduction: (5 mins) Quick review or KWL / Living Chart of previous lesson									
Activity 1: (10 r	Activity 1: (10 mins) Ask class question: 'Do all countries use the same amount of CO2?									
Are we all equal	Are we all equally to blame for the world warming up?									
Use <u>Population Sheet</u> to illustrate concept of per capita (<i>total emission divided by the number of people in each country</i>). Use <u>Worksheet 3 Flags Matching Exercise</u> and <u>World Map</u> if children need to recap where each county is.										
Show Worksheet 5 Pie chart of CO2 per capita										
Brainstorm or discuss: Which country uses most per person? Is this fair?										
Activity 2 / Conclusion: (10 mins) Conscience alley: Split class - Yes side of room, No side of room. Students / teacher walk down alley (between 2 groups). Each member of each side gives one argument. Use flash cards if required (fair / unfair)										



1	2	3	4	5	6	7				
Location: ClassroomEquipment Required: Worksheet 6 - Poster ideas, Paper, colouring pens or pencilsTime: 40 minutesPaper, colouring pens or pencils										
Objective: To express in positive way what children have learnt from previous lessons										
nins) Rev	iew or KWL	/ Living Ch	art of previo	us lessons						
Activity 1: <i>(10 mins)</i> Extra electrical items could be brought into class Children close their eyes. One child goes around class finding ways to waste energy, (turns on lights, cd players, taps, opens windows etc.) Children open eyes. One child chosen to rectify situation. Process repeated.										
Activity 2: (25 mins) Design a poster to show people why we need to save energy and the simple things every one can do to reduce their impact on the environment. The slogan has to be positive – think about what children in Ireland can do to make a difference. It should encourage action!										
Either: 1. Poster and slogan to show the global nature of climate change OR 2. Poster and slogan to show the need for local action in reducing energy consumption in your life Examples: <u>Worksheet 6 - Poster Ideas</u>										
Conclusion: Continue finishing the posters into English or Art lesson - Once finished, display posters in front of class and ask the children to explain what is in their poster.										
Display the posters in a prominent area of the school so other children can see the messages. Stress the importance of making the changes that they are advocating – CHILDREN CAN MAKE A DIFFERENCE!										
	ess in po ins) Rev s) Extra e eyes. Or aps, oper s. One ch s) Design an do to r children i an to show eet 6 - Po nue finist lass and	ess in positive way w ins) Review or KWL s) Extra electrical iter eyes. One child goe aps, opens windows s. One child chosen t s) Design a poster to an do to reduce their children in Ireland ca an to show the global an to show the need the eet 6 - Poster Ideas nue finishing the poster class and ask the child in a prominent area	Fess in positive way what childre <i>ins</i>) Review or KWL / Living Ch <i>s</i>) Extra electrical items could b reves. One child goes around c aps, opens windows etc.) <i>s</i> . One child chosen to rectify sit <i>s</i>) Design a poster to show peop an do to reduce their impact on the children in Ireland can do to make an to show the global nature of c an to show the need for local act <i>eet 6 - Poster Ideas</i> nue finishing the posters into Er- class and ask the children to exp <i>s</i> in a prominent area of the school	Paper, colourin ess in positive way what children have learn <i>ins</i>) Review or KWL / Living Chart of previo s) Extra electrical items could be brought int reyes. One child goes around class finding aps, opens windows etc.) c) One child chosen to rectify situation. Proce c) Design a poster to show people why we need the environment and to make a different and to show the global nature of climate change an to show the global nature of climate change an to show the need for local action in reduci eet 6 - Poster Ideas nue finishing the posters into English or Art I class and ask the children to explain what is a in a prominent area of the school so other of	Paper, colouring pens or peress in positive way what children have learnt from previous ins) Review or KWL / Living Chart of previous lessons s) Extra electrical items could be brought into class reves. One child goes around class finding ways to was aps, opens windows etc.) s. One child chosen to rectify situation. Process repeaters and ot or reduce their impact on the environment. The slochildren in Ireland can do to make a difference. It should an to show the global nature of climate change OR and o show the need for local action in reducing energy of eet 6 - Poster Ideas nue finishing the posters into English or Art lesson - One class and ask the children to explain what is in their posters in a prominent area of the school so other children can	Paper, colouring pens or pencils ess in positive way what children have learnt from previous lessons <i>ins</i>) Review or KWL / Living Chart of previous lessons <i>s</i>) Extra electrical items could be brought into class reyes. One child goes around class finding ways to waste energy, (aps, opens windows etc.) <i>s</i> . One child chosen to rectify situation. Process repeated. <i>s</i>) Design a poster to show people why we need to save energy and an do to reduce their impact on the environment. The slogan has to children in Ireland can do to make a difference. It should encourage an to show the global nature of climate change OR an to show the need for local action in reducing energy consumption eet 6 - Poster Ideas nue finishing the posters into English or Art lesson - Once finished, class and ask the children to explain what is in their poster.				

Climate Change

WORKSHEET 1 Vocabulary matching exercise

- ♥ Weather
- Growing Up
- ♀ Carbon Dioxide (colin CO2)
- Pollution
- Greenhouse
- ♀ Climate































Climate

Change



Match each flag with a country from the following list: Philippines, Sierra Leone, Ireland, Haiti, Bangladesh, Kenya







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5.

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WORKSHEET 4 Flooding in Bangladesh

Girl from Bangladesh

Name: Rupali Akter

Age: 14



Tell us a little about where you live

Our village is beside the bank of the river and its soil is made up of clay and sand. And in the floods the sand and clay get everywhere.

There are 400 people in my part of the village. When there are floods, no-one can use the road and the phones don't work.

How has your community been affected by changes in the climate?

The rain doesn't come in time. The older people say that long ago there were loads of different fish in the river and that you could eat different kinds of fish for days and days but not anymore. And there isn't enough fish for all the fishermen so a lot of them are trying to find new jobs.

Are there any other effects of changes in the climate?

We eat a lot of rice but now the rice plants are being attacked by something called foot rot disease and the plants are dying.

And what about you, how does climate change affect you?

Last time we had floods, my father was sick. He had diarrhoea, which means you have to go to the toilet a lot. But the toilets are all outside and they were very dangerous because of the insects and the snakes. Last year, a boy in my school, called Faruk, was bitten by a snake and died. And when the floods come we don't have enough clean water for drinking. And the floods can wash a house away. The water can actually pick it up and move it. In a way the water just eats it up.

Can you tell us about anything that has been done to try to slow down climate change?

There's very little we can do. We really depend on the river for everything.

WORKSHEET 4 Environmental Change in Haiti

Girl from Haiti

Name: Tiena Paul

Age: 12

Tell us a little about where you live

I live in Port-au-Prince, Haiti. The sea is not very far away and there is a river that passes by my house. There are not many trees because people cut them down to use as fuel wood. Most people here work in agriculture or fishing.

Has your community been affected by changes in the climate?

This year there have been 4 cyclones in the space of 1 month. It is the first time in my life that I have seen this. It was very frightening. The river was over the bridge and flooded much of the city. After the hurricane hit we had no water in the taps for weeks. We had to buy drinking water because all the water sources were dirty. This year I noticed that the mango season was shorter, and there were fewer mangoes.

Are there any other effects of changes in the climate?

The cyclones caused a lot of damage in my area. People have died trying to cross the river. Many people have lost their gardens and animals. Many houses were flooded and there are also houses that have been destroyed.

And what about you, how does climate change affect you?

I do not know exactly why we have so many problems but I think people who live in the hills and cut trees all the time are partly responsible. There are not enough trees to retain soil and water, so when it rains the earth and the river meet. If we continue to cut trees without planting others to replace them, I fear that my area will become a desert. Then the land cannot produce food, there won't be enough food for everyone and perhaps no water source. I fear for my future and that of other children.

Can you tell us about anything that has been done to try to slow down climate change? I would like to plant more trees in the hills and educate communities to stop cutting them down.

Vocabulary

cyclones: powerful tropical storms mango: type of fruit





Boy from Ireland

Name: Haro Ginzales Age: 10

Tell us a little about where you live

I live in Clonmel, which is a really cool town. There are loads of things to do. I love painting and drama. And I'm really keen on swimming. I have a little sister called Narata. We



live beside the River Suir and when the weather's nice Narata and I might go for a walk with our Mam and look at the ducks and the swans. Those birds, they always look like they're in no particular hurry but then they fly off somewhere or they go to their nest or they start quacking or honking at each other

Has your community been affected by changes in the climate?

The river floods an awful lot. If we get storms, the river starts to grow. It actually gets bigger and bigger and the ducks and swans seem to know something funny is happening and they disappear. And then the water starts sloshing over the edges.

Are there any other effects of changes in the climate?

A load of times now, the river sloshed out onto the road and cars got stuck in the water - actually stuck in the water. People had to get out and leave their cars and much later somebody would come and collect them.

And what about you, how does climate change affect you?

The worst was last year. The water reached our house. It came in under the door and went everywhere. If you stood in our hall the water came up almost to your knee. We had to leave really quickly and Mam said we could only bring one toy with us. I took my painting book and Narata took her teddy. But when we got back and the water was gone the house was so smelly. It was smelly for ages.

Can you tell us about anything that has been done to try to slow down climate change?

The local council is doing a big job to stop this happening again. They're digging holes all over the place but I heard a grown-up say that there's no money left so they might have to stop all the digging.

WORKSHEET 4 Drought in Kenya

Girl from Kenya

Name: Sharon Atieno Okoth

Age: 15

Tell us a little about where you live

A lot of people live in my area. We're very far from our nearest place to get water.

Has your community been affected by changes in the climate?

Some of the crops in the fields die and some of the animals as well. When the animals die, we don't have enough food.

And a lot of rain falls during the rainy seasons and sometimes people die because of the flooding.

Are there any other effects of changes in the climate?

We had to move because of the floods and I couldn't go to school.

When the dry season lasts too long, we don't have enough food and some children die because they don't have enough to eat.

And what about you, how does climate change affect you?

People die because there isn't enough food during the dry season. And people get sick as well.

When we don't get enough rain, water becomes a big problem. There's not enough water for us or our cattle.

Can you tell us about anything that has been done to try to slow down climate change?

People have planted more trees. Now we have a rule that if you cut down one tree, you have to plant two more. I've also helped to clean our neighbourhood. People don't get sick so much when things are nice and clean.





WORKSHEET 4 Environmental Change in Philippines

Girl from Philippines

Name: Jophet Jen B. Rojo

Age: 15



Tell us a little about where you live

Our community is peaceful. We have many trees because children help plant them. Generally people are happy in our community. Most people work on farms or they fish.

How has your community been affected by changes in the climate?

It's much hotter now and everyone feels it. Children get sick because of the heat and then they can't go to school. Parents can get sick as well because of the heat, and then they can't work and make money and the whole family becomes poorer.

Are there any other effects of changes in the climate?

In the past it was really fun because children could play outside even during the hottest part of the day and after playtime we would go to the mountains where the air is cool and fresh. But now, children almost never play in the hot afternoons. Because it's so hot some of the crops in the fields die and then the farmers don't make so much money and they become poorer and the children in those families can't buy cool things and sometimes they even have to work instead of going to school to make money.

And what about you, how does climate change affect you?

Climate change may destroy all my dreams. I had loads of plans before about what I'd do when I grew up but now I'm not sure I'll be able to do all those things.

Can you tell us about anything that has been done to try to slow down climate change?

Our school planted some trees and we've cleaned up some of the beaches and places beside the sea.

Plan

WORKSHEET 4 Flooding in Sierra Leone

Girl from Sierra Leone

Name: Kimi agrim Karogbo

Age: 14



Tell us a little about where you live

I live in the city beside a river. The river has a waterfall and we use the water for cooking and cleaning clothes. Most people live in small houses made of blocks and there are also some shacks , which are much poorer houses, with corrugated iron on the roofs.

How has your community been affected by changes in the climate?

During the rainy season a lot of flooding happens. Some of the houses get washed away. They fall down and the water takes them away, especially the shacks.

Are there any other effects of changes in the climate

During the heavy rains my parents can't work. My Dad has to take his holidays at this time and my Mam, who sells second hand clothes, has to stop working. During harmattan season, when dry winds come from the Sahara desert, a lot of people have coughs.

And what about you, how does climate change affect you?

When my parents aren't working we have no money at all. The harmattan season is much longer now and we're afraid that the river will run dry and then there'll be no water for the neighbourhood.

Can you tell us about anything that has been done to try to slow down climate change?

We haven't taken any steps yet but we'd like to. I think we should stop cutting down trees because trees stop the flooding getting worse. They're tied into the ground and they stop the soil moving with the water.





Please use this worksheet if you cannot access the WMnt Eco2 Home (Key stage 2) on the Internet

Lounge / Sitting Room

<u>Gas Fire</u>

It's very hot in here!

Turn down the fire to a suitable setting.

Options: high; medium; low; off

(It's great to sit in front of a gas fire when it's cold - but it can use a lot of gas. The gas fire can be good to warm up a sitting room in Spring and Autumn when the central heating is turned off)

<u>Windows</u>

This house is always cold! What do you want to do?

Keep the old windows Double glaze half the windows Double glaze all the windows

(Double glazing stops a lot of energy escaping through the window and prevents draughts. But it is expensive! In the Summer, double glazing can help to stop the house getting too hot) <u>Curtains</u>

Close all windows Close some windows Leave all windows open

(Closing the curtains at night helps to keep the warmth in and draughts out. Winter nights are long and cold. Keep the curtains closed)

Home Entertainment

You have a lot of items on standby TV/Video/DVD player/Sound System.

What do you want to do?

Leave everything on standby

Turn off the power to all the items at the wall socket

(Electrical items left on standby can use a lot of energy as they are partly turned on all day and night)

Kitchen

<u>Fridge</u> Set the fridge temperature Options: 4: 8, 12, off



(Fridges and freezers need to be set to the correct temperature to store food safely. A fridge should be set between 2 and 4 degrees.)

Washing Machine

You have about $\frac{3}{4}$ of a full load of washing. What do you want to do?

Wait until you have a full load Do half a load Do a wash with $\frac{3}{4}$ load

(A washing machine uses less energy on low temperature settings. Note: a full load will not cost twice as much as half a load!)

Tumble Drier

You have only a few items to dry, how will you dry them?

Use the tumble dryer

No thanks, I'll use the washing line

(Tumble driers use a lot of energy. If possible, use the washing line. Even on a cold Winter's day washing will dry outside if it's sunny, breezy and dry.)

Cooker Oven / Microwave

You want to cook two baked potatoes. What would you like to do?

Cook them in the main oven

Cook them in the microwave

(An oven is a good way of cooking a meal as long as the oven is full! You would save a lot of energy by cooking just one or two items in the microwave.)

<u>Dishwasher</u>

The dishwasher is full and ready to go. Select washing setting

Options: super hot, normal, economy, off

(Some people believe that a modern dishwasher uses less energy than hand washing the dishes. Do you need to use the hottest setting?)

Central heating /Hot water boiler

The boiler is very hot and costs a lot of money to run for heating.

Options: Have the old boiler serviced

Replace the old boiler with a modern one

(The boiler heats up the water that goes to your radiators. It also heats the water that comes out of the hot taps. A new boiler will use less energy and only heats up the water you use so you don't need a hot water tank)



Bedroom 1

<u>Air conditioning</u>

What do you want to do?

Options: Keep windows closed in daytime on a hot day to keep hot air out Fit air conditioning units

(An air conditioning unit uses a lot of energy to cool down the air in the house. It takes warm air in and blows out cold air. In Ireland there really is no need to cool our homes. Wear cool clothes, keep doors closed on a hot day. Keep windows closed at night.)

<u>Home Entertainment</u>

You have a lot of items on standby TV/Video/DVD player/Sound System.

What do you want to do?

Options: Leave everything on standby

Turn off the power to all the items at the wall socket

(Electrical items left on standby can use a lot of energy as they are partly turned on all day and night)

Landing

<u>Lighting</u>

There are 20 standard bulbs in the e-CO2 home. How many would you like to change for low energy bulbs?

(An efficient low energy bulb uses much less energy and lasts much longer than a 'standard' light bulb, but it costs more to buy. In the Winter the nights are long and the days are short so you will have the light on for longer.)

<u>Thermostat</u>

The house is too hot. Set the thermostat to a comfortable level.

Options: 28, 24, 26, 22, 20, 18, 16

(A thermostat keeps the house at a standard temperature. 18 to 20 degrees should be warm enough. In the Winter why not add an extra layer of clothes instead of turning up the thermostat.)

Bathroom

<u>Hot WaterTank</u>

The hot water in the tank goes cold quickly and sometimes comes out of the taps cold. What do you want to do?

Add a thin jacket



Add a thick jacket Don't add a jacket

(A hot water tank insulating jacket stops the hot water in the tank from going cold.) <u>Bath</u>

What would you like to do?

Have a bath

Have a shower

(A bath uses a lot more hot water than a shower.)

Attic

Loft Insulation

This house is always cold and it costs a lot of money to heat the house. What do you want to do?

Add a thin insulation layer

Add a medium insulation layer

Add a thick insulation layer

(Loft insulation keeps the heat inside your house and stops it escaping through the roof. In the Summer the roof space gets really hot. Loft insulation helps to keep the house cool!)



Population (measured in millions of people)





Carbon Emissions Per Capita (measured in metric tons)







FAIR

UNFAIR

WORKSHEET 6 Poster Ideas

Climate Change

YOU CONTROL Climate Change.

TURN DOWN. SWITCH OFF. RECYCLE. WALK. CHANGE

HOW WILL YOUR YOUR CHILDREN GET TO SCHOOL?

Act Now! On Climate Change





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For click WMnet button for online version







Colin CO2 and his family are very special because they make a blanket of air that keeps the earth nice and warm.

WMnet

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games

6,6













Our cars, buses, trains and planes burn fuel to make them move. story

games
To keep our houses warm and cook our food we burn gas, oil, wood and coal.

WMnet

i-board

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When we use anything electrical like lights, washing machines or TV, a power station has to burn fuel to make electricity.

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When the world gets warmer, the weather changes...

There is more very hot, dry weather.

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