Strange Weather

Climate Change Activities For the English Classroom

http://americanenglish.state.gov

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Goals





Provide activities and resources that you can use in the English language classroom



http://americanenglish.state.gov

Part I: Strange Weather

Global Warming & Climate Change

During the day when the San's energy reaches Earth's atwesphere, mast of it goes right threagh. Some bounces off, back into space.

Earth

At night, most of the Sun's energy escapes back into space. But some is tropped inside the atmosphere by the groenhouse gases, further worming Earth.

Sun

from http://www.epa.gov

Greenhouse Effect





From http://history.nasa.gov

From http://climatekids.nasa.gov

Gases are both natural

and man-made



Photo: epa.gov



From www.epa.gov



From www.epa.gov

Gases Go Global







Venus Too much!

Earth Just right!

Mars Not enough!

From www.nasa.gov

Climate Connections



From www.epa.gov

www.epa.gov



Changing Rain and Snow Patterns

Integ

Shorms

Changes in Animal Migration and Life Cycles



Higher Temperatures and More Heat Waves

More Droughts and Wildfree

Thewing Permafrost

Corals

100

Rising

A DALLARD A DALLARD

Warmer

Changes in Plant Life Cycles

www.epa.gov

Climate vs. Weather "Climate is what we _____, weather is what we _____."

expect get

-- Mark Twain

Climate vs. Weather

"Climate is what we expect,

weather is what we <u>get</u>."

-- Mark Twain

Weather = short-term

Climate = long-term

Let's take some polls

The Earth's average temperature has increased since the late 1800s, when people started burning a lot of coal, oil, and natural gas



From epa.state.gov

2000 - 2010 was the warmest decade ever recorded



From epa.state.gov

Global Warming affects ocean life



From epa.state.gov

You have noticed some strange weather in your area

True?

So what can I do about it

and

why teach this in English class?

Spread the news!

Reduce your Carbon Footprint



From http://beagreencommuter.com

- 1. Walk or take public transport
- 2. Eat locally produced food
- 3. Unplug your cell phone charger
- 4. Turn off lights
- 5. Re-use and Recycle
- 6. Avoid buying water in plastic bottles
- 7. Avoid using endless plastic bags
- 8. And spread the word!



Part II: Strange Weather Project Ideas Resources



Tbilisi, Georgia Photo: Eve Smith

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boito SAVE the World

WAY DID 1

General Topics

Carbon footprints Shark finning Plastic Growing our own food Deforestation Severe weather

General Topics

Carbon footprints Shark finning

• Plastic

Growing our own food Deforestation <u>Severe weather</u>

Projects: Have Students Create....

- Their own comics for their community A petition
- Posters about the impact of plastic
- A radio program
- A Youtube video documentary
- A public service announcement

Public Service Announcement (PSA)

TV advertisement Radio advertisement Poster Pamphlet Webpage Facebook **T-shirts**

Google: Marine Debris Blog

https:// marinedebrisblog.wordpress.com/ tag/jim-toomey/



https://marinedebrisblog.wordpress.com/tag/jim-toomey/

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NOAA'S MARINE DEBRIS BLOG Regist the Sea Prec of Debrial



TAG ARCHIVES: JIM TOOMEY

September 11, 2013 By NCAA Marine Debris Program 2 Comments

Two Minutes on Marine Debris

By: Asma Mahdi

Food for thought: "Try to find a beach where nobody has been before. Chances are, trash

Get access to current marine debits information and learn more about the program by visiting http://marinedebris.nosa.gov

PROACY

SEARCH THES BLOG



has beaten you there."

When trash, like an empty plastic bottle, soda can, or disposable sandwich bag is not properly tossed into a trash can, it can end up in our streams, rivers and bays, eventually finding its way to the ocean.

Check out this two-minute video posted last fail explaining the problem and how you can help be part of the solution from our partners at the United Nations Environment Programme along with cartoonist and NOAA Environmental Hero Jim Toomey.

Two Minutes on Oceans

What changes can you make in two minutes to help solve the marine debris problem?

Two Minutes on Cosans w/ Jim Toomey: Marine Liber

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MOST POPULAR STORIES

The Nets are Rolling In

Three Things You Should Know About Mare Reef

NGAA MOP funds 11 community-based marine debris temokal projects

	ARCHIVES	
	Select Month	
_	RECENTLY TWEETED	
	Tweets	y folos
	NOAA Marine Debris	10

In just 15-days, #SeeDocSociety removed

Converses for Texase parties Odels 1 Taxes for Texases marine littler, NCAA Marine Debris Program, assess



https://marinedebrisblog.wordpress.com/tag/jim-toomey




PLASTIC

PAPER

ALUMINUM

























Top 10 Items Removed from Global Coastlines and Waterways

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10

https://marinedebrisblog.wordpress.com/tag/jim-toomey

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Elements of a PSA

- 1. 10 to 60 seconds
- 2. Answer: who, what, where, when, how and why
- 3. Persuasive
- 4. Problem and solution

Create a Poster



Chat box: What are the language skills that can be developed through a PSA?

(i.e. speaking, usage of mental verbs such as "I like," "I think," etc.)

Photo Essay

• A series or set of photos gathered or taken to tell a story or provoke emotions

Contains the elements of a written story

Chat box: What do you think the story is about?



Photos: Chris Newton, Nina Corey Posted on Eve Smith's Facebook

Story in the Classroom

What do they see?

Community-based

Experience-based



II Search

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Exc.

The Ocean the Sea and Me

Ode to the waterways of the world.



www.pinterest.com



Gros Vertre Falls, Glacier National Park, Mortana.

· to paratelast

Penel him



Salt Lake in Turkey. "We carry oceans inside of us, in our blood and our sweat. And we are crying the oceans, in our tears," G. D. Acterts, Shantaram



Madakaripura Waterfall, East Java, Indonesia Amonogramevacation

Glacker National Park, Montana,

India and champings in the last

USA

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Provided Science Total Loop

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> Finned from Roberts N



Automethe Crock, Trail of Tears.

Glacier National Park, Montana,

Macau. "Wat cannot discover new oceans unless he has the courage to lose sight of the shore." Andre Gde









Fored hom

finite series

The reservoir in Donetsk City before the war. "We need the tonic

Glacker National Park, Montana



First light on Kinnerly Peak, Glacier National Park, Montana

· la potenti

Frend York Number of Street, or other



Islands in the Philippines. "We are like islands in the sea, separate on The surface but connected in the deep." William James



www.pinterest.com





signifiatus, by kactusficus, via Flok)

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Nudbranch. Photel from surjeupphotes, biogigent 2008



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Or a Cartoon

Short story Adventure Fun Practice grammar and vocabulary



Chat Box: What does Leroy the Lemon shark mean when he says the glass is always ½ empty?







179 J

Jim Toomey:

Learning from Sherman the shark

Mission Blue Voyage 14:15 Filmed Apr 2010 Subtities available in 20 languages

Vew interactive transcript



Cartoonist Jim Toomey created the comic strip Sherman's Lagoon, a wry look at underwater life starring Sherman the talking shark. As he sketches some of his favorite sea creatures live onstage, Toomey shares his love of the ocean and the stories it can tell. Related playlists & talks



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A Kids' Guide to Climate Change & **Global Warming** How to Take Action!

Cathrys Berger Kave, M.A.

brewse



Do you want service learning activities and projects for middle and high school. kids that make a difference on the local,

Aatomal, and global scene?

Related materials:

New-Lark



This free workbook, part of Free Spirit's Now to Take Action! series by internationally renowned service learning expert Cathryn Berger Kayer, is what you need. Click to dewnload it new.

A Kits' Guide to Climate Change & Global Warming teaches about current issues related to climate change, such as:

- carbies feetprints
- "foodprints" (how the food we consume affects climate change)
- · the preenhouse effect
- alternative energies
- defortuition
- water conservation
- · severe weather
- the history of environmentalism
- affects of climate change around the world.

Kds explore what others in the world (including young people) have done and are doing to address the issues. Find out what their community needs, and develop a service project. The workbook includes facts, quotations, real-life examples, write-oil pages, resources, a note to adults-and a lot of inspiration to get out there and make a difference in the world. Includes an exclusive interview with Reid Detchon, executive director of Energy and Climate Division of the United Nations Foundation.

Kes' Gyze to





American Society for the Prevention of Cruety to Animals \$0.00



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http://www.freespirit.com/service-learning-service-projects-a-kids-guide-to-climate-change-and-global-warming-cathryn-berger-kaye//?cat_id=26



Stage 2: Preparation

Imagine that a drought (a severe dry spell) is affecting your community. You investigate the problem and decide to find ways that less water could be used at your school by doing a



water audit. What would you do next? Prepare. You have experience preparing all the time. You prepare to go to school each school day, by learning lines for a play, or by gathering ingredients to bake cookies. Make a list of three ways you would prepare to do a water audit at your school.

1._____

2.

3._____

Now look at the list below. Did you have similar ideas?

- Brainstorm all the ways water is used at school.
- Draw a map of the school and mark places where water use might be reduced.
- Obtain a school water bill, and learn what the different terms mean.

http://www.freespirit.com

Invite a speaker to your school from the water utility company.

Stage 3: Action

Once you have investigated your skills and community needs, and are prepared with the background knowledge you need, you are ready to create and carry out your **action** plan. Most often, you will take action in one or more of the following four ways.

Direct Service:

Your service involves face-to-face interactions with people or animals, or close contact with them.

Indirect Service:

Your action is not seen by the people (or animals) who may benefit from it, but it meets a real need. "Life is a big canvas. Throw all the paint on it you can." —Danny Kaye, actor

Advocacy:

What you do makes others aware of an issue and encourages them to take action to change a situation.

Research:

You gather and report on information that helps a community,
Where in the World Is Global Warming?

Check out these places where global warming is taking its toll. For each, determine the potential cause and the resulting impact. For the three blank boxes on the map, research each area and describe the causes and impacts of global warming there.

A Warm Arctic?

With wormer winters, earlier springs, and longer, hatter

summers, large lakes are replacing pands, animals are

one growing

maring in from the south, and

plants never seen in the area

Becoming Inferior The world's largest freshwater lake is heating and shrinking. Winter ice cover once reflected sunlight into space. Now, rising temperatures place animals and plants at risk. Boats and ships are restricted.

Lake Superior

Costa Rican Forest Groning Fragless An estimated 165 amphibian species have disappeared in the Monteverde

http://www.freespirit.com

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www.reefcheck.org

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Reef and Beach Clean-ups

Geko Dive has employed local people since 1999 to clean the beach in Padang Bai on a daily basis. In addition to this we endeavor to hold a large beach and underwater cleanup every 3 months. This involves the local community and raises awareness of the issues involved in waste disposal.

Please see some photos below of the underwater clean-up held on 27th April 2008. We had approximately 165 people from the local community, local businesses, expatriates and visitors take part in the one day event which focused on the main beach of Padang Bai and the Wall at Blue Lagoon.

If you would like to take part in an underwater clean-up please contact us for upcoming dates.



http://gekodivebali.com/conservation/conservation_clean-ups.html



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Geko Dive's current focus is to make the children aware of the problem and enable them to do something about it, making them enthusiastic and proud to be part of the solution. To this end Cynthia Kasar, one of the former owners of Geko Dive, went into the local schools on Earth Day 2010 to give a talk on reducing, re-using and recycling waste. They were then invited to join in the Beach and underwater clean-up on 25th April 2010. To remind the children, and others, of their efforts more than 200 t-shirts were given out.



"Those of us in business in places like here (Padang Bai, Bail) must take responsibility and act now. If WE don't do something, who will?" said Cynthia Kasar, Geko Dive's former owner. "One of the places that we should start is by helping to show the children what their world will be like if the current attitudes don't change. They have the potential to do so much, and we have the ability to help them. Today's clean-up is just the start."



http://gekodivebali.com/conservation/conservation_clean-ups.html

Part III: Strange Weather

Easy Awareness Activities for Classrooms

Plastic: love or hate?



Photo: wikipedia

5 minutes of plastic

- Give groups of students 5 minutes to look around the room and list as many things as possible that are made of plastic. Share your lists.
- 2. Ask the question, "Where does plastic go?"





Photo: Kevin from Monterey Bay Aquarium, California

Where plastic goes



Photo: Yamamoto Biology/Creative Commons

What are these?



Photo: wikipedia by gentlemanrook

Nurdles!



Photo: wikipedia by gentlemanrook



Our plastic trash drifts in the gyre

Our plastic trash blows into waterways and rides ocean currents. Over time, plastic breaks down into confetbilike crumbs that collect in the North Pacific Gyre. These tiny bits, sometimes called "mermaid tears," look like food to ocean animals.

Help keep plastic out of the sea

What long-term effects will plastic have on our oceans, marine animals—and us? As researchers work to answer these questions, we can help stem the plastic tide. Say 'no, thanks' to plastic bags, bottles and foam cups, keep recycling and always stash your trash.

Photo: Kevin, from the Monterey Bay Aquarium, California

Refuse the Bag

Listen to the audio



Photo: Yamamoto Biology/Creative Commons

Picture Cards





Chant/Song Pattern

There's a plastic bag in the garbage can
There's a plastic bag in the garbage can
There's a plastic bag in the garbage can
We put it in the garbage can



Adjust the Pattern with Student Contributions

There's a dirty old sock in the garbage can
There's a dirty old sock in the garbage can
There's a dirty old sock in the garbage can
We put it in the garbage can



Your turn - fill in the blanks

- 1. There's _____ in the garbage can
- 2. There's _____ in the garbage can
- 3. There's _____ in the garbage can
- 4. We put it in the garbage can



Further Adjust the Pattern

There's a lot of CO2 in the atmosphere
There's a lot of CO2 in the atmosphere
There's a lot of CO2 in the atmosphere
We've gotta do something about that









Don't put all the waste you produce into one bin, Separate 4!

@ Put different waste into different bins: glass together, com pages paper together, plastic together, (glass and plastic) (3) Weste from different recycling bins will be taken to different recycling factories.



old apples; writing paper · ten mit all · plastic langs, bottles 4 51985

· Wood " into martridger * Towns / + extiles

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Skim, Scan, Run







Tape several posters to the walls (or ceilings, or even outside)

Skim, Scan, and Run

Skim: to look over a text briefly for the major ideas or organization Scan: to search a text for specific data Run: to put one leg in front of the other, quickly

Instructions

Write the answers to the questions below. Work as a team.

First, skim the questions so that you are familiar with them.

Next, move around the room and scan articles, brochures, advertisements, and books for the information.

This paper must remain on your desk. Do not take it with you. Write the answers at your table.

Organize yourselves.

Sample question: "Name something that can damage coral."

Be a Localvore?

Listen to the song



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American Rhythms

Do you love music? Want to use it to learn English? Check out the hip-hop inspired song "Peace" from Sing Out Loud American Rhythms. Download the songs and lyrics for free!

The Sing Out Loud American Rhythms CD includes a variety of musical genres from many different artists in the U.S.A. These songs will appeal to teens and young adults. This "hybrid" CD also contains a teacher's guide to using music in the classroom.

Downloads	Hard Copy	Online
Classroom	Actvities	

http://americanenglish.state.gov/resources/american-rhythms

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From a young age, Zach Ladin developed a liking for music and the outdoors. Ladin's love and gratitude to all things natural and his musical talent come together in the music he writes and performs. Many of his songs are written to help children understand the beauty and value of nature. In the folk song Localvore, in which we hear the sounds of the banjo and the bandolin, Zach sings about appreciating locally grown food. Localvore, part of the larger project called Nature Jams, is about supporting local foods, businesses, and ultimately our communities and people. In a rapidly changing world, Ladin calls on individuals to have a huge role in reducing their impact on the environment by supporting the growing "local" movement.



Lyrics and Classroom Activities



Localvore by Zach Ladin (2:55)

1

5

I wanna be a localvore I wanna walk to the store And play my banjo on the porch As the sun goes down

I wanna live with the land I wanna have garden hands Mandolin is twinkling All through the night

9 I wanna be treading light I know I'm on the right track tonight When I can find everything I need Out on the porch, in the evening breeze

13 I wanna be a localvore I wanna give my home my support And play my banjo on the porch As the sun goes down

Localvore



ACTIVITY MENU

PRE-LISTENING

Four Comers Unscramble the Sentences Stanza Creation

LISTENING

Relax and Enjoy! Mixed-Up Pictures Did You Hear What I Heard?

SINGING

Sing Along With Me Old Song, New Song Your Moves

POST-LISTENING

Speaking: What Do YOU Think? Reading: Jigsaw Reading Writing: Paragraph Posters



Four Corners

Purpose: To generate interest in the song; to express opinions and make choices about controversial ideas/statements.

Level: Level 2 and above Time: 10 - 15 minutes

Preparation and Materials: Label four corners or areas of the classroom with posters or signs that say: Strongly Agree Agree Disagree Strongly Disagree

Instructions: Write several controversial statements on the board one at a time. After listening to the song, write the corresponding lines from the song next to each controversial statement and hold a follow-up discussion.

Example Statement:

"It's best to eat food that was made in another country."

Localvore: Mixed-Up Pictures



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Content Spotlight: Earth Day

EARTH DAY

Learn about Earth Day celebrations in the United States

Earth Day is celebrated on April 22nd in the United States. The first Earth Day event in 1970 was organized by U.S. Senator Gaylord Nelson to draw attention to the negative effects of modern life on the environment. He was concerned about problems such as pollution and overuse of natural resources.

He called for a special day for lectures and discussions to encourage Americans to consider their impact on the earth. Nearly 20 million Americans participated in the first Earth Day by attending lectures and participating in peaceful demonstrations. Today many countries around the world celebrate Earth Day.



http://americanenglish.state.gov/content-spotlight-earth-day

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American Culture

Content Spotlight: Summer Camp

http://americanenglish.state.gov/content-spotlight-summer-camp

CLASSROOM ACTIVITIES

Environmental Conservation Jazz Chanta

Activity Level: Upper Beginner and Intermediate.

Activity Overview

Summer camp programs often use songs and chants, which are ideal for English language learners because they provide a fun way to practice pronunciation and increase fluency. Use these environmental conservation jazz chant activities in an English language summer camp or to edd camp-etyle fun to science or social studies-themed lessons in your EPL classroom.

Materiala

- Audio files .mp3
 - We Don't Know Where it Went
 - Waking
 - I'm a Fish (coped audio).
 - Refuse the Bag (copied audio)
- Audio output device computer, CD pizyer, mobile phone with speakers.
- Lyrics Sheet Included in the Activities Plan (PDP)
- Teacher whiteboard, chalkboard, or large pieces of paper posted on the walt; markers or chalk; small sips of paper with chant lyrics or pictures (see the "Unscramble the chant/song" Loop Listening variation for more information)
- Students pencils or pens, blank paper (for some activity variations)

http://americanenglish.state.gov/content-spotlight-summer-camp

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http://americanenglish.state.gov/celebrate-world-oceans-day

Tbilisi, Georgia Photo: Eve Smith

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WAY DID 1



facebook



Anti-Littering Campaign Jordan is on Facebook

Sign up for Facebook to connect with Anti-Littering Campaign Jordan.



Keep your country clean !!

Information.

Founded: 2009

685 People Like This



Wall	Info	Photos Discussions
lasic Info		
founded		2009
Detailed I	nfo	
Website:		http://anti-litteringjordan@hotmail.com
Company	Overview	The Anti-littering campaign was founded in 2009 by 17 students from different schools in The district of Amman in th Hashemite kingdom of Jordan. The Anti-litter campaign Jordan is an all volunteer anti - litter campaign in Amman, Jordan.
Vission:		Our mission is to is to raise awareness and educate the public about the far reaching negative effects of litter and trash on our environment. And as a result of a cleaner and less pollute country.

Thanks for keeping the planet cleaner!



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