Our Role in the Environment

Major Topic: Resources

Length of Unit: 4 – 90 minute classes

Unit Summary: Students will work together discussing, writing and completing activities concerning today's major environmental challenge to recycle, reduce and reuse. They will also reflect and respond to these challenges through real world connections.

Interdisciplinary Connections: Students will complete reading and written language activities for each lesson covering science and mathematics topics. They will actively participate in each lesson using technology to research and compare the utility bills for their school, home, as well as other schools in the district.

Understanding Goals: The information learned from this lesson should assist in identifying our roles to help our environment, starting in our homes and our school.

Essential Questions:

- What is being done to solve today's environmental challenges?
- What can both individuals and the government do to affect each area of concern?
- What will different forms of action cost and how will we pay?

Student Objectives:

Students will be able to:

- ES.6 investigate and understand the differences between renewable and nonrenewable resource.
 - d) environmental costs and benefits.

Blooms Taxonomy	21 st Century Skills
Evaluating	Critical Thinking
Analyzing	Problem Solving
Applying	Communication
Understanding	Collaboration
Remembering	Information & Media Contextual
	Research

Performance Tasks:

Students will:

- Explain steps individuals, homes and schools could take to conserve natural resources and protect our environment.
- Outline today's major environmental challenges.
- Complete group activities and discussions for each lesson.
- Complete individual reading and writing assignments for each lesson.
- Complete an end of unit assessment.

Evidence of formative assessment:

Students will earn a daily participation grade for working independently and in their groups as observed by their teacher. Students will complete reading and writing assignments for each lesson in the unit which will be graded for completion. Students will complete activities on each lesson for a grade. At the completion of the unit, students will complete an objective assessment with a final essay with suggestions for energy conservation at home and at our school.

Evidence of Summative Assessment:

Students will complete an objective assessment including multiple choice questions, matching questions and true/false questions. Each student will complete an essay for the final assessment with suggestions on how we can conserve energy at home and at our school.

Technology

Hardware	Software
Computers	Multimedia
Digital Camera Equipment	Word Processing
Printer	Internet Web Browser
Internet Connection	
Calculators	

Resources from the web:

• Students will complete research on their school division to find documentation (usually covered at school board meetings) on each school's utility bill for a specific month.

Supplies:

- Worksheets
- Paper
- Pencils

- utility bills from student's homes
- utility bills from school
- Computer
- Internet

Vocabulary: sustainable, conservation, ecology, environmentalist, climate change, global warming, landfill, hazardous waste, fossil fuels, renewable energy, biofuels, nonrenewable energy, biodegradable, recycle, composting

Lesson 1: Environmental Challenges - (1 - 90 minute class)

- Students receive the vocabulary for the unit and discuss as a group each term for understanding and discussing prior knowledge.
- Students complete a Reality Check worksheet independently for prior involvement in saving our environment and afterwards discuss their answers in the group
- Students complete the anticipation guide for "Where has all the gasoline gone?" Then students read the scenario independently and write up a response using questions supplied with the sheet while comparing their responses to the anticipation guide.
- In closing, students lead a discussion on the material covered in the lesson and review the essential questions.

Lesson 2: Utility Bills and Landfills - (1 - 90 minute class)

- Students/parents have been requested to bring in a recent home utility bill.
- Students research to find recent school board documents and print them off for comparison to their home utility bill.
- Students calculate the difference from their home utility bill to the school utility bill for a specific month. What is the annual bill if the bill was the same for each month? Home? School?
- Students complete an Energy Conservation worksheet together to list ways to save energy at home and at school.
- Students complete an anticipation guide prior to reading a case study Town Meeting: "When the Landfill is Full"
- Students read the case study and reflect on the anticipation guide answers they supplied as a group discussion.
- Students write up a response to the case study using the case review questions supplied at the bottom of the page.
- In closing, students discuss the lesson and the essential questions together.

Lesson 3: One can make a difference - (1 - 90 minute class)

- Students complete a double entry draft as a group after reading a case study titled "One can make a difference."
- Students independently complete an essay using the information they completed on the double entry draft.
- Students survey the school documenting with photos ways the school is recycling and discuss what could have been recycled.
- Students share their essays with the group at the end of the class period discussing each student's ideas.
- In closing, students discuss today's lessons and essential questions together.

Lesson 4: Wrap it up - (1 - 90 minute class)

- Students complete an anticipation guide for a case study/town meeting: "The Well Runs Dry"
- Students read the case study and then reflect on the anticipation guide and how they might change their answers now.
- Students write an essay using the anticipation guide and the case review questions.
- Students use their calculators to compute a 20% increase in their home and school utility bills according to one of the suggestions from the case study to reduce water usage. What would this mean to their parents financially? What if the same happened to our school?
- Students complete a unit review, "Your Role in the Environment".
- In closing, students share and reflect on this unit using the essential questions as a guide.

Your Role in the Environment

International state of the following terms and identifying phrases. 1. Responsibly using environmental resources to prevent depletion or permanent damage. 2. The protection and management of the environment and valuable natural resources. 3. The study of the relationship between living things and their environment. 4. Shifts in measurements of climate—such as temperature, precipitation, or wind—that last decades or longer. 5. Substances—liquids, solids, and gases—that are dangerous or potentially harmful to health or the environment. 6. A fuel derived from the decomposed remains of animals and plants that lived in prehistoric times. 7. A source of energy that is continually available or can be replenished, such as wind, water, and the sun. 8. A fuel composed of or produced from biological raw material. 9. A source of energy that can be used up or that cannot be used again, such as petroleum, natural gas, and coal. 10. Describes a material that can be broken down naturally by microorganisms into harmless elements. 1. The most economical and practical step in lessening the problems of solid in produce less waste. 1. F 12. Existing landfill sites for disposal of nonhazardous solid waste are running capacity.	e	
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F 13. The United States produces enough fuel to meet almost 90 percent of its fue requirements.	el	
F 14. Dependence on foreign sources of fuel has helped create both economic an problems in the United States.	d political	
F 15. There is almost nothing an individual can do alone to protect the environment		
F 16. Most consumers could conserve a considerable amount of energy without	major	
inconvenience. F 17. Adequate home insulation reduces heat loss and lowers heating bills significantly the second	ficantly	

T	F	18.	Transportation accounts for almost two-thirds of the petroleum used in the United States.
T	F	19.	Citizen groups can be a very powerful force in dealing with environmental issues.
T	F	20.	Product stewardship requires businesses to reduce the health and environmental impacts of consumer products.
Μι	ıltip	le C	hoice: Choose the best response. Write the letter in the space provided.
		21.	The forms of energy we use most at the present time are A. hydro and geothermal energy B. nuclear and wind power C. petroleum and natural gas D. solar and biofuels
		22.	Development of nuclear energy has been slow and controversial because it A. cannot be stored B. is an inadequate source of energy C. is too costly D. presents problems with safety and waste disposal
		23.	Solar energy is the most desirable source of fuel A. economically B. environmentally C. technically D. All of the above.
		24.	The disadvantages of unplanned development and urban sprawl include all except A. more roads B. more public services C. greater shopping convenience D. increased environmental pollution from driving
		25.	Doing your part to protect the environment and conserve natural resources involves all except A. making conservation a way of life B. leaving environmental issues for government to solve C. recognizing the cumulative effect of small acts of litter and waste D. participating in community environmental protection programs
	- Laws	26.	The greatest share of energy used in homes is for A. heating and cooling B. lighting C. major appliances D. small appliances (Continued)

Name

Name	-	
	27.	The best time to water your yard is
		A. in the early evening
		B. throughout the day at two-hour intervals
		C. when sunlight is at its peak
		D. whenever it is convenient
	28.	Which of the following is <i>not</i> a good way to protect the environment?
		A. Avoiding unnecessary use of insecticides.
		B. Buying things in disposable rather than returnable containers.
		C. Taking care not to litter.
		D. Taking papers, bottles, and cans to recycling centers.
W <u>ee</u>	29.	You can increase gas mileage by
		A. letting your car idle when stopped for several minutes
		B. driving at moderate speeds
		C. quick starts and stops
		D. switching from bus to car
	30.	The purpose of a green tax is to
		A. charge the cost of pollution to the polluter
		B. create environmental jobs
		C. set energy efficiency standards
		D. stop urban sprawl

Essay: Please write an essay on conserving energy at home and at school. List specific examples of how we could lower our utility bills both at home and at school as well as suggestions for conserving/recycling.

Reality Check

	Name
	Date Period
w mucł	h are you really doing for the environment? Check all that apply.
1	. I keep myself informed about local environmental issues.
2	. I realize that small acts, such as tossing one wrapper out of the car window, can lead to be environmental problems.
3.	. I avoid wasting water, food, gas, and electricity.
4	. I recycle newspapers, magazines, glass, and plastics.
5.	. I make an effort to reduce noise pollution.
6.	. I participate in community projects that enhance and protect the environment.
7.	I avoid unnecessary and careless use of pesticides and harsh chemicals.
8.	. When shopping, I look for products that can be recycled and avoid overpackaged products
9.	. I support candidates who take stands on environmental issues.
10.	. I respect natural resources as economic assets.
11.	. My home is well-insulated to conserve energy.
12.	I turn off electrical equipment when not in use.
13.	I avoid running water unnecessarily, such as when I brush my teeth.
14.	I avoid using dishwashers, clothes washers, and dryers during peak energy usage times.
15.	I walk or bike when possible.
16.	I carpool when possible.
17.	I follow fuel-conserving driving practices.
18.	I take care to repair leaky faucets promptly.
19.	When buying appliances, I look for energy- and water-saving features.
20.	I conserve water used in the yard by watering in the early morning or evening.
nt the n	number of statements you checked. Do you consider yourself a friend to the environment?

Our Role in Our Environment Vocabulary



Where Has All the Gasoline Gone?

Anticipation Guide

1.	Our nation is running out of fuel.		
	Agree:	Disagree:	
	Explanation:		
2.	Alternatives to fuel need to be enforce	d.	
	Agree:	Disagree:	
	Explanation:		
3	Citizens should be fined if they do not	carnool	
٥.	Agree:	Disagree:	
	Agree.	Disagree.	
	Explanation:		

Where Has All the Gasoline Gone?

Name _____

	Date Period
Rea	d the scenario and answer the discussion questions.
bloc noc for	opose our nation is facing a severe fuel shortage. Lines at service stations are two and three cks long. Most stations close on weekends, and many run out of gasoline by Thursday afteron. Supplies that are available are sold on a first-come, first-served basis. This creates problems all the people who must drive to work. In many areas, the public transit system is neither quate nor reliable enough to replace private cars.
List	red below are some possible alternatives for dealing with this situation.
a.	Strictly enforce a 55 miles per hour speed limit.
b.	Raise the price of gasoline to lower demand. At the same time, develop a gas stamp program to aid the needy and those who must drive to work.
c.	Allocate more funds for further development of synthetic fuels.
d.	Improve relations with countries that export petroleum and make whatever agreements are necessary to get more fuel.
e.	Raise the driving age.
f.	Close shopping centers, service stations, and other facilities on Sundays to reduce unnecessary driving.
g.	Penalize families that own more than one car.
h.	Increase costs connected with driving and car ownership, such as licenses, parking fees, and permits.
i.	Reward carpooling by requiring all single passenger auto commuters to buy special permits.
j.	Place a heavy tax on automobiles that do not meet high fuel economy standards.
k.	Restrict the sale of private cars and require auto owner permits based on transportation needs.
1.	Allocate more funds to develop fuel-efficient public transportation.
1.	Consider the costs, benefits, and consequences of each alternative. What choices would you make? Which do you think would be most effective?
	(Continued)

2.	Which alternatives would be the most costly for government?
3.	Which alternatives would be the most costly for consumers?
1.	Which alternatives would be the most inconvenient?
	-
5.	What other possible alternatives can you suggest?
	Which alternatives would affect you personally? Explain.
).	writeri alternatives would affect you personally: Explain.

Energy Conservation



Name		
Date	Period	1

In each column below, list nine ways that you and your family can conserve energy. Place a star next to the things you do routinely. Underline those that you have not done in the past, but would be willing to do.

Energy Savers In school In the home: 1. 1. 2. 2. 3. 3. 4. 4. 5. 5. 6. 6. 7. 7. 8. 8. 9. 9.

"When the Landfill is Full" Anticipation Guide

1.	Recycling is necessary for	or our environment.
	Agree:	Disagree:
	Explanation:	
2.	City residents and the ci	ty landfill have nothing in common.
	Agree:	Disagree:
	Explanation:	
3.	The city should shares h	omes an additional fee for producing too much waste.
٥.		
	Agree:	Disagree:
	Explanation:	
4.	Curbside recycling shoul	d only be voluntary for homeowners.
	Agree:	Disagree:
	Explanation:	
5.	Conservation and our ho	me utility bills have nothing in common.
	Agree:	Disagree:

W	hen the Landfill Is Full
	Devon is president of the town council. He inherited a number of
СО	mmunity problems, including a landfill almost filled to capacity. A
_	nitation report calls for closing the landfill in three years.
	To extend the use of the landfill, Devon and the town council want to find
an	other place to dispose of solid waste. Transporting waste to a distant
	ndfill will be very costly. Increases may run as much as \$200 to \$300
	nually per household.
	Devon suggests the following approaches to the problem:
•	Promote voluntary recycling with curbside pickup of recyclable materials.
	Establish mandatory recycling with curbside pickup and fines for failure
	to recycle.
•	Charge a fee-per-pound of waste over a specified minimum to encourage
	recycling and composting of yard wastes. Establish a community-based
	compost program for yard wastes.
•	Assist households with composting of both yard and food waste.
	Designate convenient drop-off centers for all recyclable waste.
•	Levy a special tax per household to pay for solid waste disposal.
	Require local merchants to recycle packing materials and other
	recyclable waste.
•	Organize an awareness campaign to encourage residents and merchants
	to reduce, reuse, and recycle solid waste materials.
Ca	se Review
1	. Which three ideas would you favor most? Explain.
2	. Which three ideas would you favor least? Explain.
3	. What other actions can you think of for reducing, recycling, and disposin
	of solid waste?
4	. Which of the above would be the most and least costly for individuals,
	businesses, and local government? the most and least convenient?
5	. Choose one of the alternatives and prepare a report describing the
	environmental pros and cons of the action and the costs for individuals,
	merchants, and the local government.
6	. Which of the described actions have been carried out in your area and
	how well do they work?

	One Can Make a Difference	
	Maxine recently attended a community presentation titled "Survival on	
	Planet Earth." The speaker outlined five critical environmental issues:	
	solid waste disposal	
i i	energy conservation	
	climate change	
	water purity and conservation	
	hazardous waste disposal	
	The speaker also shared powerful "what you can do" directives. After the	
46	presentation, Maxine started forming a "Mother Earth" action group at her	
	high school. Within a week's time, Maxine had 25 enthusiastic members. The	
	group wants to take steps in each of the five areas. They hope to gain both	
	individual and community participation.	
	Case Review	
	1. Choose two environmental issues and outline at least three actions	
	the Mother Earth group could take in each area. Include individual and	
	community projects.	
	2. Discuss environmental protection and conservation projects that might	
- Fire and a second	work in your home, school, and community.	

Case Study: Town Meeting

One Can Make a Difference

Maxine recently attended a community presentation titled "Survival on Planet Earth." The speaker outlined five critical environmental issues listed below on the left side of the paper. The speaker also shared powerful "what you can do" alternatives. After the presentation, Maxine started forming a "Mother Earth" action group at her high school. Within a week's time, Maxine had 25 enthusiastic members. The group wants to take steps in each of the five areas. They hope to gain both individual and community participation. Read through the five issues and work with a partner to reflect and outline at least three actions the Mother Earth group could take in each area. Include individual and community projects.

Name	Reflect on class discussions we had covering	
Course	utility bills at home and school as well as how we	
Date	can recycle, reuse, reduce, and respond to this	
	issue.	
	4)	
-solid waste disposal		
-solid waste disposal		
-energy conservation		
chergy conservation		
-climate change		
· ·		
-Water purity and conservation		
Hazardous waste disposal		

	The Well Runs Dry	
	Two summers after Devon became town council president, a drought hit	
500	the area and the water table dropped substantially. The town needed to	
	reduce its water usage.	
	Devon suggested raising water rates by 20 percent. A town council	
	member recommended a ban on watering lawns, trees, shrubs, and gardens.	
	Other council members advised limiting watering to evening and early morning	
	hours.	
	Council members also suggested educating residents about taking	
	shorter showers and finding ways to reduce water use. Another idea	
	mandated low-flow toilets, showerheads, and appliances in new and	
	remodeled bathrooms and kitchens. Members also discussed installing a	
	water-rationing system to limit water usage in each household.	
	Case Review	
	1. What other steps can you think of for conserving water?	
	2. How would each of the council's suggestions affect you and your family?	
100000	3. Which idea do you think would be most effective? Why?	
	4. How would you be willing to change your own habits to help conserve	
	water and other resources in a crisis situation?	
	5. What are some important considerations for government bodies to think	
	about when passing laws and policies to deal with resource shortages?	

Case Study: Town Meeting Anticipation Guide

The Well Runs Dry

1.	Citizens will be mandated to attend information sessions on water conservation.				
	Agree: D	isagree:			
	Explanation:				
2.	To help with water conservation the city will mandate home to install low-flow toilets				
	showerheads and appliances in new and remodeled bathrooms and kitchens.				
		isagree:			
	Explanation:				
3.	Water will be rationed to limit water usage in each household.				
		isagree:			
	Explanation:				