

ENVIRONMENTAL STUDIES

Bonus

Carbon Footprint

GRADES 5-8

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Writing a Short Report

Reading Energy Meters and Energy Bills

Your household very likely has an electric meter that measures the amount of electricity being used at any time. You will also have a gas meter if that is one of your sources of energy. For each of these, you will receive monthly bills for the amount of energy you use.

- 1. Find the energy bills for an entire year. Compare the amount of each kind of energy you use in different seasons. Make graphs showing energy use versus month of the year.
- 2. You may also be able to find average temperatures for each month of the year. Add temperature to the graphs and compare trends in energy use to trends in temperature.
- 3. Look at the electric and gas meters and watch the little dials spin around. Each dial represents a different digit (1s, 10s, 100s, etc). Figure out how to read the meters.
- 4. Turn off everything that is using gas and electricity and see how much gas and electricity you use per hour. You will still be using some gas because of pilot lights. You will probably still be using some electricity because of little lights that are always glowing on electronic devices.
- 5. Turn on just one 100-Watt light bulb. Read the electric meter, and then read it again one hour later. Find the difference in kilowatt-hours (kWh). Subtract the amount from step 4. That should be the energy used by the light bulb. It should be 0.1 kWh. (100 W × 1.0 hr. × 1.0 kW/1000 W)
- 6. You may also want to measure the energy used by some of your other electrical appliances.
- 7. You can use the same procedure to measure the energy used by gas appliances.





Make a Solar Hot Water Heater

Solar hot water heaters are very simple. They are basically just water inside a black plastic container lying in the sunlight. You can use any black plastic container for this experiment. 1. You can buy "camping showers" at a large outdoor store. They are black plastic bags with a hose and shower head attached. The idea is to leave the bag filled with water in the sun all day and then hang it up in the late afternoon and take a shower. 2. If you can't find a camping shower, make your own with a black plastic trash bag or a length of black plastic irrigation hose. 3. Position your shower in the sun so that sunlight strikes the surface of the bag as directly as possible. 4. Measure the temperature of the water that you put in the bag, and measure it again several times during the day. Did it get hot enough to take a shower? 5. Try it again during a cloudy day. You may be surprised how much the temperature rises even when it is not very warm outside.

Activity Three

Student Worksheet

Visit a Farmers' Market

Find the nearest farmers' market. Before you visit, think of the questions you want to ask and prepare a notebook with questions and spaces for answers. Visit stalls selling several kinds of produce. Look for fruits, vegetables, nuts, flowers, honey, eggs, and dairy products. Remember you will probably be talking directly to the farmers. They will probably be eager to tell you everything they know about their products.

These are some of the questions you can ask. See if you can think of some questions of your own to add to the list.

- 1. Is your food organic?
 - 2. How far away is your farm?
 - 3. How do you fertilize?
 - 4. How do you control pests and weeds?
 - 5. What machinery do you use?
 - 6. Do you use any sources of "green" energy, such as wind or solar?
 - 7. Also, make notes on the amount of packaging compared to food in a supermarket.

Activity Four

Student Worksheet

Compare Motor Vehicles

Learn about hybrid cars and either buses or trains. Visit an auto dealership that sells hybrid cars and a public transit company that has buses, trains, or subways. Make a list of questions to ask before you go. Here are some to get you started.

Hybrid car dealer

- 1. First tell a salesperson you are trying to convince an adult to buy a hybrid and you need some talking points for your argument.
- 2. Ask how many miles per gallon hybrid cars get around town and on the highway.
- 3. Ask to see the engine and ask for an explanation of how it works.
- 4. Ask to see the dashboard dials and readouts and ask what information they tell you.
- 5. Ask if the gasoline part of the engine can run on biofuels.
- 6. Ask if you can also plug it in to an electrical outlet or if it only generates its own electricity.

Bus or Train Company

- 1. Visit the offices of a bus or train company. If you can't find anyone who knows about the energy statistics of the vehicles, ask for some literature.
- 2. Ask for statistics:
 - a. Miles per gallon
 - b. Average number of passengers
 - c. miles per gallon per passenger
 - d. Pounds of CO₂ emissions per passenger-mile
- 3. Ask if any of the vehicles run on alternative fuels or if there are plans to purchase such vehicles.
- 4. If any of the vehicles are electric, ask if any of the electricity is generated by alternative power sources.





Activity Five

Calculate the Carbon Footprint of a Bicycle

Of course, a bicycle has a very small carbon footprint, but it is not zero. The footprint comes from three places: Energy used to manufacture the bicycle, the footprint related to the extra food you have to eat to make up for the extra calories you burn, and the CO₂ you exhale. You will have to do a little guesswork, but you can calculate all of these. The result will be the footprint of commuting to school on your bike.

- 1. Manufacturing the bicycle: Multiply the cost of the bicycle when it was new times 0.50 and divide by what you think will be the total life of the bicycle in years. Multiply this by the fraction of the bike's use that would be for travel to school. The answer will be pounds of CO_a.
- 2. Extra food you have to eat:
 - a. Assume you have the diet of the average American your age of about 2100 kilocalories (kcal) per day. Multiply this by 365 days in the year.
 - b. Riding a bicycle burns about 28 kcal per mile. Multiply this by the roundtrip distance to school and then by the number of days in the school year.
 - c. Divide the result in b. by the result in a. and multiply by 100. This is the percent increase in your food footprint.
 - d. Find the number you calculated for your food footprint when you used the footprint calculator. Use the percent increase from part c. to find your yearly increase.
- 3. CO, Exhaled: This will be the least accurate part.
 - Assume that the added exertion of riding a bicycle causes you to a. exhale an extra 0.0035 pounds (lbs.) of CO, per minute.
 - Multiply this by 60 min./hr. and divide by 10 mi./hr to get pounds per mile. b.
 - Multiply the answer in part b. by the round-trip distance to school and C. then by the number of days in the school year. This is the pounds of CO, you exhale per year riding your bike to school.
- 4. Add parts 1.2. and 3. and compare to the footprint for transportation by car as calculated using the footprint calculator.

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If you live in a city, you are probably not far from a recycling facility. Many public landfills also have a recycling facility at the same location. Before you go, think of some questions to ask and prepare a list in a notebook with space to write the answers. Here are some suggestions to get you started:

- 1. Which materials do you recycle?
 - a. Glass?
 - b. Aluminum?
 - c. Plastic?
 - d. Paper?
 - e. Steel?
 - f. Organic waste, such as lawn trimmings and wood chips?
 - g. Any automotive materials, such as motor oil or batteries?
- 2. How much separating of materials do you do and how much do people at home do?
- 3. For each of the materials that are recycled, what is the process and what are the products?
- 4. In each case, how much energy is saved?
- 5. How much CO₂ reduction comes from recycling each material?
- 6. Does the whole recycling process actually make a profit?

Activity One

Student Worksheet

Writing a Short Report on Carbon Offsets

Write a short report on carbon offsets. It sounds straightforward: You or your school has a carbon footprint that you are unable to reduce to zero. You give money to some organization that is doing something that reduces greenhouse gas emissions. Perhaps they say that they can reduce CO_2 emissions by one ton for every \$10 dollars you give them. Sounds good, but many people are skeptical of the whole concept. Here are some of the questions and controversies you can address in your report:

- 1. Can all these companies be trusted?
- 2. Does anyone oversee the program and validate legitimate organizations?
- 3. Are carbon offsets a "license to pollute" that postpones a needed change in lifestyle?
- 4. What about projects that would have been done anyway—like a logging company replanting trees after they log? Should that count as an offset?
- 5. What types of projects can be used as offsets?
- 6. Can you buy carbon offsets at airports to offset your share of the CO₂ that will be emitted by the plane you are getting on?

Many of these questions can be answered at:

http://www.carboncatalog.org/providers/

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Activity Two

Student Worksheet

Payback Time

How long does it take for a device that cuts greenhouse gas emissions to pay for itself in reduced energy bills? The object of this activity is to estimate the payback time for installing some energy-saving devices at your school. First choose one of these improvements that your school could benefit from:

- 1. Replacing incandescent bulbs with fluorescent bulbs.
- 2. Replacing single-pane windows with double-pane windows. (These are also called "double-glazed")
- 3. Installing a solar hot water heater.
- 4. Installing photovoltaic cells.

First you will need to find the amount your school spends on the electricity or fuel to power the current system. Next, estimate the amount of savings each month after installing the new system. Finally, divide the cost of the new system by the monthly savings. The result will be the number of months the new system takes to pay for itself. When looking for information, try to find independent sources, rather than using estimates from the companies selling the systems.



Activity Three

Student Worksheet

Set Up a Carpool Organization

People can't carpool if they don't know each other's names, addresses, and personal schedules. The easiest way to connect people who could carpool is through the Internet. Ask a teacher who teaches computer skills to help you set up a website where people can exchange information about carpooling. This is the information that the site should provide:

- Name and address of parents and students
- Phone number
- E-mail address
- Route taken to and from school
- Capacity of vehicle
- Schedule of any before or after school activities the student participates in

Get help making the site as user-friendly as possible. For example, clicking on the location of your home on a map could reveal the homes of all nearby students and show the routes they take to school.

The other option is to pass out questionnaires to gather all the above information and then sorting it all out by hand.



Activity Four

Student Worksheet

Create a Bike Route Map

Learn the safest ways to travel to school by bike. A map of bike routes surrounding your school may already exist. Try one of the following sources to find a map: bike shops, book stores, and on-line search for your town name and "bike lane," "bike route," or "bike map."

Use this information to create a map that focuses on the needs of students who want to travel to your school by bike. Ride some of the routes on the map you found to see if it is accurate. On your map you should use different colors to indicate different levels of safety for the routes. Definitely distinguish between bike lanes that put you beside traffic and the much safer bike routes that are completely isolated from traffic.





Activity Five

Calculate the Carbon Footprint of Your Feet

You may have read that running has no carbon footprint. Not quite. It would be more accurate to say that the carbon footprint for running is too small to worry about. If you are curious just how small it is, do this calculation. The footprint comes from three places: Energy used to manufacture the shoes, the footprint related to the extra food you have to eat to make up for the extra calories you burn, and the CO, you exhale. You will have to do a little guesswork, but you can calculate all of these. The result will be the footprint of running to school.

1. Manufacturing your running shoes: Multiply the cost of your running shoes when they were new times 0.50 and divide by what you think will be the total life of the shoes in years. Multiply this by the fraction of the shoes use that would be used for running to school. The answer will be pounds of CO₂.
Extra food you have to eat:

a. Assume you have the diet of the average American your age of about 2100 kilocalories (kcal) per day. Multiply this by 365 days in the year.
b. Running burns about 100 kcal per mile. Multiply this by the round-trip distance to school and then by the number of days in the school year.
c. Divide the result in b. by the result in a. and multiply by 100. This is the percent increase in your food footprint.

d. Assume you have an average food footprint of 7500 pounds (lbs.) per year. Use the percent increase from part c. to find your yearly increase.
CO₂ Exhaled: This will be the least accurate part.
a. Assume that the added exertion of running causes you to exhale an extra 0.014 lbs. of CO₂ per minute.
b. Multiply this by 60 min./hr. and divide by 6 mi./hr to get pounds per mile.
c. Multiply the answer in part b. by the round-trip distance to school and then by the number of days in the school year. This is the pounds of CO₂ you exhale per year running to school. when they were new times 0.50 and divide by what you think will be the total

2. Extra food you have to eat:

- **3.** CO, Exhaled: This will be the least accurate part.
- 4. Add parts 1.2. and 3. This is your foot footprint. Compare this to the footprint of



Activity Six

Student Worksheet

Comparing Light Bulbs

You may remember that compact fluorescent bulbs are much more efficient than incandescent (tungsten filament) bulbs. Why do you think that is? A 100-watt incandescent bulb provides about as much light as a 25-watt fluorescent bulb. Where did that 75-watt difference go?

For this activity you will need one bulb of each kind. They should be rated as providing the same amount of light. The 100 and 25-watt bulbs mentioned above are a good combination. Somewhere on the packaging of fluorescent bulbs you should be able to find a note as to which incandescent bulb it is equivalent to. You will also need a thermometer.

- 1. Put one of the bulbs in a lamp with a fixture that allows the bulb to point up. Do not turn the light on yet.
- 2. Hang the thermometer from a string so that the thermometer bulb is about 6 inches above the top of the light bulb.
- 3. Record the temperature on the thermometer and turn on the lamp.
- 4. Record the temperature every 15 seconds for 2 minutes.
- 5. Turn the lamp off and WAIT FOR THE BULB TO COOL.
- 6. Replace the bulb with the other bulb and repeat step 4.
- 7. Graph temperature vs. time for both bulbs.
- 8. Draw a conclusion from the results as to why fluorescent bulbs are more efficient than incandescent bulbs.



Student Worksheet

Build a Model of a Carbon Neutral Community

In this activity, you will show how all the design features of a carbon neutral community fit together and what the town would look like to a bird flying over it. The materials can be very simple. Here are some suggestions.

- Toy building blocks to use as houses, shops, and schools
- Chunks of a green sponge to use as trees
- Sawdust or sand to build hills
- Mirrors for water
- Any toys that are the right scale
- Use your imagination to make such things as rail systems, wind turbines, and solar cells.

Scissors, magic markers, and glue or a glue gun will be useful.

Think of how you will add these features in a way that they will work together:

Community Size and Street Plan

Make it small enough to be walk-able and bike-able. Arrange the streets for ease of travel. Think about the best locations for markets, schools, and businesses.

Energy Supply

What will be the best alternative energy supply? Where should it be located?

Transportation

Is it possible to design the community so that cars are not even needed? What kind of public transport will you use, and how will it be powered?

Food Supply

Where will the food be grown, how will it be transported, and where will it be sold?

Open Space

Include a greenbelt around the town and green spaces inside the town. Farmland also counts as open space. Plant lots of trees.

If you like to draw and you are good at it, you could draw a detailed picture of a carbon neutral community instead of building one.

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Student Worksheet

Report on Green Roofs

Learn about the different types of buildings covered with grass, plants, and trees and write a short report on the subject. Here are some of the topics you can explore:

Modern homes with grass roofs

If you search the Internet or library for "green roof" and "grass roof," you will get a mixture of results. Sort through the results for information and pictures on single-family homes. Look for any information on how to prepare a roof for laying down sod and on what goes under the sod.

Traditional grass-covered homes

In some European countries, people have been building houses with grass roofs for hundreds of years. You will find out about these if you search for "Swiss grass roof" and "Scandinavian grass roof."

Earth houses

Some very interesting houses are built into hillsides. You can find out about these by searching for "earth house." Report any additional advantages these homes have compared to grass roofed houses.

Large commercial buildings with green roofs

For a general search, look for "rooftop park" and "rooftop garden." For a few of the wilder ones, search for "Singapore Polytechnic School of Art and Design," "California Academy of Sciences," and "Waldspirale."

Finally, if you can find a birds-eye view of your community, make a copy of the picture. Now use a green marker to color some of the rooftops green. On the large, flat roofs, add some trees and vegetable gardens. If you have access to a computer and a color printer, you can also go to a site that shows satellite views and print out a picture of your community. You will see which roofs are already green and color in the ones that could be.

You might also want to look for satellite views of some of the green roofed commercial buildings mentioned above.





Activity Three

Visit an Alternative Energy Company

Student Worksheet

Search the telephone or internet yellow pages for "solar" and "wind." Look for listings of companies that install or build solar cells, solar hot water heaters, and wind turbines. Choose one that looks interesting, call them, and ask if you can visit. Prepare for your visit by preparing a list of questions. Here are some questions you might like to ask:

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- How do your devices convert wind or solar energy into electricity?
- How much would it cost for an average family?
- How long does it take the buyer to pay for what you sell in savings on energy bills?
- Can the buyer sell back extra electricity to the utility company?
- If the company sells passive solar devices, such as hot water heaters, ask the same questions about payback time.
- Can the buyer get any help from state, national, or local governments in terms of cash, loans, or tax breaks?
- Ask where you might go to see houses in which they have installed these devices. Ask for customers who would welcome your questions.



Activity Four

Student Worksheet

Create a Bike Route Plan

Design a bike route plan or improve an existing plan for your community. For this activity, you will look at the layout of your community and decide which routes people would want to travel by bicycle. Next you will look for routes that do not already have good bike paths and decide which would be best to build first.

First find a map of your community. Street maps will be available online, at gas stations, at book stores, and at libraries. Bike route maps are usually sold at bicycle shops.

With maps in hand, check out the existing bike routes and look for:

- Which ones seem safe
- How well they are marked with signs and on the pavement
- Which dangerous highway crossings have bicycle overpasses
- Which routes are on streets with traffic and which ones are separated from traffic

People will want to bike from where they live to where they work, shop, and go to school. Mark the residential areas and the places to which people are likely to want to ride. Make a note of these trips that can already be made on safe bike routes.

If some trips do not have good bike routes, decide where new ones should be built. Your first choices should be bike paths away from traffic through parks and open space. Along rivers, on levees, and on abandoned railroad tracks are often good routes.

On a community map, mark all the existing bike routes in one color. Mark the new bike routes you are suggesting in another color. Mail it to your mayor.



Activity Five

Student Worksheet

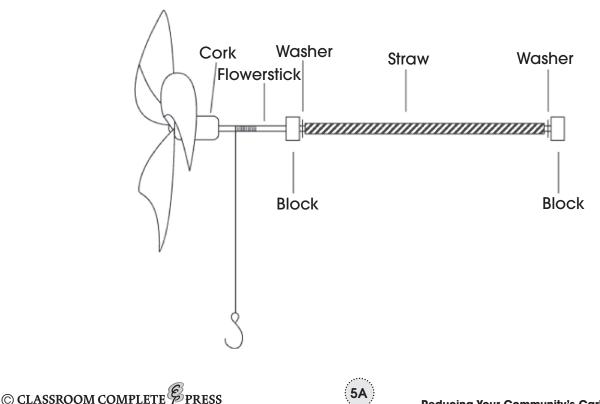
Build a Model Wind Turbine

The goal of this activity is to learn about wind turbines by building a working model of one. Begin by searching the Internet or library for "model wind turbine." You will find many plans ranging from simple to complicated. Your teacher may be able to give you some help and even give you some of the equipment you will need.

Most of the parts and tools for the simplest plans can be found around the house. Some plans use Tinker Toys for most of the parts. All plans will need a set of blades and a generator.

The blades can be as simple as a child's pinwheel. The generator can be a small DC motor, such as the ones in remote control cars. It is also possible to buy model wind turbine kits online or from a hobby store, but they can be fairly expensive.

If you think you would not be able to find all the parts for a wind turbine that generates electricity, there is a simpler possibility. You can build a windmill that changes wind energy into mechanical energy. A design of such a windmill is shown below. This is similar to the old-style windmills that were used before machines and appliances ran on electricity.



Student Worksheet **Activity Six**

Village Life

In this activity, you will learn about village life as it was lived in the past and as it still exists in developing countries. From the information you gather, you will write a short report.

Begin by searching the Internet and library for the following topics: "traditional village," "19th century village," "18th century village," "African village," and "Native village." As you search, you will find a lot of interesting pictures you can put in your report.

Here are some of the questions you can try to answer about village life:

- How did villagers get their food, and where did it grow?
- What energy sources did villagers use?
- How large were villages, and how were the different buildings ۲ arranged?
- What did villagers use for transportation? ٠
- Did villages create much trash, and what did they do with it? •
- Was the carbon footprint larger or smaller than that of today's communities?
- Why was it larger, or why was it smaller?

These questions all ask about the past, but you will find in your reading that villages in many countries are not much different today.

Now compare old-style village life to life in a modern carbon neutral community. Describe how the life in the old villages and new communities are the same. Describe how they are different.

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CC5779	Reducing Your School's Carbon Footprint Gr. 5-8
CC5780	Reducing Your Community's Carbon Footprint Gr. 5-8

LITEDA	
	TURE KITS™ - Books
ITEM #	TITLE
CC2100	GRADES 1-2
CC2100	Curious George (H. A. Rey) Paper Bag Princess (Robert N. Munsch)
CC2102	Stone Soup (Marcia Brown)
CC2103	The Very Hungry Caterpillar (Eric Carle)
CC2104	Where the Wild Things Are (Maurice Sendak)
	GRADES 3-4
CC2300	Babe: The Gallant Pig (Dick King-Smith)
CC2301	Because of Winn-Dixie (Kate DiCamillo)
CC2302	The Tale of Despereaux (Kate DiCamillo)
CC2303	James and the Giant Peach (Roald Dahl)
CC2304	Ramona Quimby, Age 8 (Beverly Cleary)
CC2305	The Mouse and the Motorcycle (Beverly Cleary)
CC2306	Charlotte's Web (E.B. White)
CC2307	Owls in the Family (Farley Mowat)
CC2308	Sarah, Plain and Tall (Patricia MacLachlan)
CC2309	Matilda (Roald Dahl)
CC2310	Charlie & The Chocolate Factory (Roald Dahl)
CC2311	Frindle (Andrew Clements)
CC2312	M.C. Higgins, the Great (Virginia Hamilton)
CC2313	The Family Under The Bridge (N.S. Carlson)
CC2314	The Hundred Penny Box (Sharon Mathis)
CC2315	Cricket in Times Square (George Selden)
CC2316	Fantastic Mr Fox (Roald Dahl)
CC2317	The Hundred Dresses (Eleanor Estes)
CC2318	The War with Grandpa (Robert Kimmel Smith)
CC2320	The Chocolate Touch (Patrick Skene Catling)
	GRADES 5-6
CC2500	Black Beauty (Anna Sewell)
CC2500 CC2501	Black Beauty (Anna Sewell) Bridge to Terabithia (Katherine Paterson)
	Bridge to Terabithia (Katherine Paterson)
CC2501	Bridge to Terabithia (Katherine Paterson) Bud, Not Buddy (Christopher Paul Curtis)
CC2501 CC2502	Bridge to Terabithia (Katherine Paterson) Bud, Not Buddy (Christopher Paul Curtis) The Egypt Game (Zilpha Keatley Snyder)
CC2501 CC2502 CC2503	Bridge to Terabithia (Katherine Paterson) Bud, Not Buddy (Christopher Paul Curtis)
CC2501 CC2502 CC2503 CC2504	Bridge to Terabithia (Katherine Paterson) Bud, Not Buddy (Christopher Paul Curtis) The Egypt Game (Zilpha Keatley Snyder) The Great Gilly Hopkins (Katherine Paterson)
CC2501 CC2502 CC2503 CC2504 CC2505	Bridge to Terabithia (Katherine Paterson) Bud, Not Buddy (Christopher Paul Curtis) The Egypt Game (Zilpha Keatley Snyder) The Great Gilly Hopkins (Katherine Paterson) Holes (Louis Sachar) Number the Stars (Lois Lowry)
CC2501 CC2502 CC2503 CC2504 CC2505 CC2506 CC2507	Bridge to Terabithia (Katherine Paterson) Bud, Not Buddy (Christopher Paul Curtis) The Egypt Game (Zilpha Keatley Snyder) The Great Gilly Hopkins (Katherine Paterson) Holes (Louis Sachar) Number the Stars (Lois Lowry) The Sign of the Beaver (E.G. Speare)
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LITERA	TURE KITS™ - Books
ITEM #	TITLE
CC2528	From the Mixed-Up Files of Mrs. Basil E. Frankweiler (E.L. Konigsburg)
CC2529	Sing Down the Moon (Scott O'Dell)
CC2530	The Phantom Tollbooth (Norton Juster)
CC2531	Gregor the Overlander (Suzanne Collins)
CC2532	Through the Looking-Glass (Lewis Carroll)
CC2533	Wonder (R.J. Palacio)
CC2534	Freak the Mighty (Rodman Philbrick)
CC2535	Tuck Everlasting (Natalie Babbitt)
	GRADES 7-8
CC2700	Cheaper by the Dozen (Frank B. Gilbreth)
CC2701	The Miracle Worker (William Gibson)
CC2702	The Red Pony (John Steinbeck)
CC2703	Treasure Island (Robert Louis Stevenson)
CC2704	Romeo & Juliet (William Shakespeare)
CC2705	Crispin: The Cross of Lead (Avi)
CC2706	Call It Courage (Armstrong Sperry)
CC2707	The Boy in the Striped Pajamas (John Boyne)
CC2708	The Westing Game (Ellen Raskin)
CC2709	The Cay (Theodore Taylor)
CC2710	The Hunger Games (Suzanne Collins)
CC2712	The Pearl (John Steinbeck)
	GRADES 9-12
CC2001	To Kill A Mockingbird (Harper Lee)
CC2002	Angela's Ashes (Frank McCourt)
CC2003	The Grapes of Wrath (John Steinbeck)
CC2004	The Good Earth (Pearl S. Buck)
CC2005	The Road (Cormac McCarthy)
CC2006	The Old Man and the Sea (Ernest Hemingway)
CC2007	Lord of the Flies (William Golding)
CC2008	The Color Purple (Alice Walker)
CC2009	The Outsiders (S.E. Hinton)
CC2010	Hamlet (William Shakespeare)
CC2011	The Great Gatsby (F. Scott Fitzgerald)
CC2012	The Adventures of Huckleberry Finn (Mark Twain)
CC2013	Macbeth (William Shakespeare)
CC2014	Fahrenheit 451 (Ray Bradbury)
CC2015	The Crucible (Arthur Miller)
CC2016	Of Mice and Men (John Steinbeck)
CC2018 CC2017	Divergent (Veronica Roth)
	AGE ARTS - Books
CC1110	Word Families - Short Vowels Gr. K-1
CC1111	Word Families - Long Vowels Gr. K-1
CC1112	Word Families - Vowels Big Book Gr. K-1
CC1113	High Frequency Sight Words Gr. K-1
CC1114	High Frequency Picture Words Gr. K-1
CC1115	Sight & Picture Words Big Book Gr. K-1
CC1100	How to Write a Paragraph Gr. 5-8
CC1101	How to Write a Book Report Gr. 5-8
CC1102	How to Write an Essay Gr. 5-8
CC1103	Master Writing Big Book Gr. 5-8
CC1116 CC1117	Reading Comprehension Gr. 5-8 Literary Devices Gr. 5-8
CC1118	Critical Thinking Gr. 5-8
CC1119	Master Reading Big Book Gr. 5-8
CC1106	Reading Response Forms: Gr. 1-2
CC1107	Reading Response Forms: Gr. 3-4
CC1108	Reading Response Forms: Gr. 5-6
CC1109	Reading Response Forms Big Book: Gr. 1-6

MATHEN	1ATICS - Software
ITEM #	TITLE
	PRINCIPLES & STANDARDS OF MATH SERIES
CC7315	Gr. PK-2 Five Strands of Math Big Box
CC7316	Gr. 3-5 Five Strands of Math Big Box
CC7317	Gr. 6-8 Five Strands of Math Big Box
MATHEN	MATICS - Books
	TASK SHEETS
CC3100	Gr. PK-2 Number & Operations Task Sheets
CC3101	Gr. PK-2 Algebra Task Sheets
CC3102	Gr. PK-2 Geometry Task Sheets
CC3103	Gr. PK-2 Measurement Task Sheets
CC3104	Gr. PK-2 Data Analysis & Probability Task Sheets
CC3105	Gr. PK-2 Five Strands of Math Big Book Task Sheets
CC3106	Gr. 3-5 Number & Operations Task Sheets
CC3107	Gr. 3-5 Algebra Task Sheets
CC3108	Gr. 3-5 Geometry Task Sheets
CC3109	Gr. 3-5 Measurement Task Sheets
CC3110	Gr. 3-5 Data Analysis & Probability Task Sheets
CC3111	Gr. 3-5 Five Strands of Math Big Book Task Sheets
CC3112	Gr. 6-8 Number & Operations Task Sheets
CC3113	Gr. 6-8 Algebra Task Sheets
CC3114	Gr. 6-8 Geometry Task Sheets
CC3115	Gr. 6-8 Measurement Task Sheets
CC3116	Gr. 6-8 Data Analysis & Probability Task Sheets
CC3117	Gr. 6-8 Five Strands of Math Big Book Task Sheets
	DRILL SHEETS
CC3200	Gr. PK-2 Number & Operations Drill Sheets
CC3201	Gr. PK-2 Algebra Drill Sheets
CC3202	Gr. PK-2 Geometry Drill Sheets
CC3203	Gr. PK-2 Measurement Drill Sheets
CC3204	Gr. PK-2 Data Analysis & Probability Drill Sheets
CC3205	Gr. PK-2 Five Strands of Math Big Book Drill Sheets
CC3206	Gr. 3-5 Number & Operations Drill Sheets
CC3207	Gr. 3-5 Algebra Drill Sheets
CC3208	Gr. 3-5 Geometry Drill Sheets
CC3209	Gr. 3-5 Measurement Drill Sheets
CC3210	Gr. 3-5 Data Analysis & Probability Drill Sheets
CC3211	Gr. 3-5 Five Strands of Math Big Book Drill Sheets
CC3212	Gr. 6-8 Number & Operations Drill Sheets
CC3213	Gr. 6-8 Algebra Drill Sheets
CC3214	Gr. 6-8 Geometry Drill Sheets
CC3215	Gr. 6-8 Measurement Drill Sheets
CC3216	Gr. 6-8 Data Analysis & Probability Drill Sheets
CC3217	Gr. 6-8 Five Strands of Math Big Book Drill Sheets
	TASK & DRILL SHEETS
CC3300	Gr. PK-2 Number & Operations Task & Drill Sheets
CC3301	Gr. PK-2 Algebra Task & Drill Sheets
CC3302	Gr. PK-2 Geometry Task & Drill Sheets
CC3303	Gr. PK-2 Measurement Task & Drill Sheets
CC3304	Gr. PK-2 Data Analysis & Probability Task & Drills
CC3306	Gr. 3-5 Number & Operations Task & Drill Sheets
CC3307	Gr. 3-5 Algebra Task & Drill Sheets
CC3308	Gr. 3-5 Geometry Task & Drill Sheets
CC3309	Gr. 3-5 Measurement Task & Drill Sheets
CC3310	Gr. 3-5 Data Analysis & Probability Task & Drills
CC3312	Gr. 6-8 Number & Operations Task & Drill Sheets
CC3313	Gr. 6-8 Algebra Task & Drill Sheets
CC3314	Gr. 6-8 Geometry Task & Drill Sheets
CC3315	Gr. 6-8 Measurement Task & Drill Sheets
CC3316	Gr. 6-8 Data Analysis & Probability Task & Drills
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