DEQ in the Classroom: **P2 Bingo**



IDAHO DEPARTMENT OF ENVIRONMENTAL QUALITY

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Grade Level:

3 - 12

Time Required:

15 - 20 minutes minimum; "blackout" could take up to an hour.

Objective:

To reinforce good environmental practices. This game is not intended to stand alone as an activity, but to be used as a supplement to other activities. It is handy to have on hand to use if a main activity takes less time than expected and you need something else to fill a time slot.

Focus:

Multimedia: good environmental practices. The pollution prevention practices used in the game cover all environmental media: air, water, and waste.

Materials:

Bingo sheets (25 are attached)

Master list (attached)

Beans (or similar) to mark sheets (need 20 per student)

Background:

There are many good things we can do every day to eliminate and reduce pollution/waste and reuse and recycle resources. All of these help to protect Idaho's environment.

Vocabulary:

Compost	A mixture of decaying vegetation and manure; used as a fertilizer. To convert vegetation, etc. (grass, kitchen scraps) to compost.
Eliminate	To take out. In this context, refers to not creating or using something in the first place (e.g., not turning on the lights).
Pollution Prevention (P2)	Practices that reduce or eliminate the creation of pollutants or waste through increased efficiency in the use of resources. P2 goes beyond recycling and reusing and involves using resources efficiently to not create waste in the first place.
Recycle	Transforming waste materials into useable resources.
Reduce	Using less so that less waste or pollution is generated (e.g., turning off the lights when you leave the room).
Reuse	Using something again to avoid generating the waste that is created by throwing something away and replacing it with something new.

Procedure:

Ahead of time: Print out one bingo sheet for each student (25 attached). Print out two copies of the master list. Cut the squares out of one master list and put them in a box (or something) for you to draw from. Do *not* put the four shaded heading squares ("eliminate," "reduce," etc.) in the box. Save the other copy of the master list (uncut) for Step 1. <u>Print all pages single sided.</u>

Some of the items on the squares have a short explanation as to why something is good to do. If an explanation appears on the master list in italics and smaller print, it is <u>not</u> on the students' sheets, but serves to help you during the discussion. In all other instances, the text on the master sheets and students' sheets are identical.

Step 1. Play bingo (or "blackout"). Pick slips of paper (squares) from the box one at a time and call out what they say. Place each slip of paper as you draw it on its spot on the uncut master list (this will help you in Step 2 when you verify a student has won). If students have the item on their sheets, they mark the square with a bean. The fist person with one row of items covered (vertical or horizontal) calls out "Bingo!" (To play "blackout," play until someone has all squares covered.) *Because the sheets are 4 columns x 5 rows, students cannot get a bingo diagonally.*

Step 2. Once someone has won, have him or her repeat to you what squares they covered. Verify you did call those items. For each, ask the class (or the student who won) why that action is good. If they don't know, explain. There are some explanations on the master list to help you.

P2 Bingo Master List, Page 1

Eliminate	Reduce	Reuse	Recycle
Don't burn garbage (burning causes air pollution)	Take short showers	Make gift tags from old greeting cards	Aluminum cans
Sweep sidewalks and driveways – don't hose off (hosing off wastes water)	Don't leave the water on when brushing teeth	Use bows for decorating gifts over again	Compost kitchen waste
Don't turn on the lights when you don't need them	Turn off the lights when you leave the room	Use gift bags over again	Compost lawn clippings
Wrap gifts without putting them in boxes	Use both sides of paper	Use the comics from newspapers to wrap gifts	Leave lawn clippings on the lawn
Ride a bike to school	Carpool	Eat leftovers	Plastic milk jugs
Walk to school	Turn off car engines when waiting at school	Use the back of "used" paper for scratch paper	Newspaper
Use cloth bags for groceries	Follow instructions when using cleaners and other chemicals (reduces air pollution from chemicals)	Give old toys to your kid brother	Glass
Ask to be removed from junk mail and catalogue mailing lists	Plant a tree	Donate old clothes to charity	Cardboard
Use a lunch box or cloth bag to carry your lunch	Combine trips in the car (go to the park and the store in one trip)	Bring grocery bags back again and again	Magazines (after you've shared them with friends)

P2 Bingo Master List, Page 2

Eliminate	Reduce	Reuse	Recycle
Use washable cups instead of paper cups	Take the bus	Buy batteries that can be recharged (and recharge them!)	Computer paper (after used on both sides, of course!)
Email party invitations	Turn off faucets all the way – don't let them drip	Use containers food comes in (e.g., from yogurt) as storage containers	Used batteries that can't be recharged
Download songs instead of purchasing CDs (legally, of course!)	Only run the washer when it is full	Borrow books from the library	Toilet paper rolls
Don't use the air conditioner in the car – roll down your windows instead	Pick up litter	Use grocery bags to line garbage cans	
Don't turn on the air conditioner at home – open windows instead	Pick up after your pet (keeps pet waste from getting into streams, etc.)	Use old newspaper or shredded paper as "packing" for breakable gifts	
Buy in bulk	Never pour anything down a storm drain (keeps chemicals, etc. out of streams, etc.)	Share used magazines with friends	
Use cloth napkins instead of paper ones	Buy soda in 2-liter bottles instead of in cans	Buy things at garage sales	
		Sell things at garage sales	

Eliminate	Reduce	Reuse	Recycle
Don't burn garbage	Take short showers	Make gift tags from old greeting cards	Aluminum cans
Sweep sidewalks and driveways – don't hose off	Carpool	Borrow books from the library	Compost kitchen waste
Don't turn on the lights when you don't need them	Pick up litter	Buy things at garage sales	Magazines (after you've shared them with friends)
Wrap gifts without putting them in boxes	Don't leave the water on when brushing your teeth	Eat leftovers	Plastic milk jugs
Email party invitations	Take the bus	Use containers food comes in (e.g., from yogurt) as storage containers	Used batteries that can't be recharged

P2 Bingo Sheet 2

Eliminate	Reduce	Reuse	Recycle
Ride a bike to school	Use both sides of paper	Buy things at garage sales	Glass
Use cloth bags for groceries	Turn off car engines when waiting at school	Use bows for decorating gifts over again	Toilet paper rolls
Don't turn on the lights when you don't need them	Plant a tree	Use grocery bags to line garbage cans	Computer paper (after you've used both sides, of course!)
Ask to be removed from junk mail and catalogue mailing lists	Combine trips in the car (go to the park and the store in one trip)	Use old newspaper or shredded paper as "packing" for breakable gifts	Leave lawn clippings on the lawn
Walk to school	Only run the washer when it is full	Give old toys to your kid brother	Used batteries that can't be recharged

Eliminate	Reduce	Reuse	Recycle
Use cloth bags for groceries	Plant a tree	Use the comics from newspapers to wrap gifts	Toilet paper rolls
Ride a bike to school	Turn off car engines when waiting at school	Use grocery bags to line garbage cans	Aluminum cans
Walk to school	Use both sides of paper	Use bows for decorating gifts over again	Glass
Ask to be removed from junk mail and catalogue mailing lists	Only run the washer when it is full	Use the back of "used" paper as scratch paper	Leave lawn clippings on the lawn
Don't turn on the lights when you don't need them	Pick up litter	Sell things at garage sales	Used batteries that can't be recharged

Eliminate	Reduce	Reuse	Recycle
Buy in bulk	Turn off faucets all the way – don't let them drip	Borrow books from the library	Toilet paper rolls
Sweep sidewalks and driveways – don't hose off	Carpool	Make gift tags from old greeting cards	Magazines (after you've shared them with friends)
Wrap gifts without putting them in boxes	Pick up litter	Use containers food comes in (e.g., from yogurt) as storage containers	Compost kitchen waste
Don't turn on the lights when you don't need them	Follow instructions when using cleaners and other chemicals	Bring grocery bags back again and again	Used batteries that can't be recharged
Don't burn garbage	Take short showers	Buy things at garage sales	Plastic milk jugs

Eliminate	Reduce	Reuse	Recycle
Use a lunch box or cloth bag to carry your lunch	Follow instructions when using cleaners and other chemicals	Bring grocery bags back again and again	Newspaper
Sweep sidewalks and driveways – don't hose off	Combine trips in the car (go to the park and the store in one trip)	Use bows for decorating gifts over again	Cardboard
Don't turn on the lights when you don't need them	Take the bus	Buy batteries that can be recharged (and recharge them!)	Compost lawn clippings
Don't turn on the air conditioner at home – open windows instead	Turn off faucets all the way – don't let them drip!	Use the comics from newspapers to wrap gifts	Plastic milk jugs
Ride a bike to school	Pick up litter	Use old newspaper or shredded paper as "packing" for breakable gifts	Used batteries that can't be recharged

Eliminate	Reduce	Reuse	Recycle
Use a lunch box or cloth bag to carry your lunch	Combine trips in the car (go to the park and the store in one trip)	Bring grocery bags back again and again	Newspaper
Use washable cups instead of paper cups	Pick up after your pet	Buy batteries that can be recharged (and recharge them!)	Aluminum cans
Don't turn on the lights when you don't need them	Take the bus	Use bows for decorating gifts over again	Compost lawn clippings
Email party invitations	Pick up litter	Share used magazines with friends	Toilet paper rolls
Ride a bike to school	Carpool	Borrow books from the library	Magazines (after you've shared them with friends)

Eliminate	Reduce	Reuse	Recycle
Email party invitations	Pick up litter	Borrow books from the library	Compost lawn clippings
Don't turn on the air conditioner at home – open windows instead	Take the bus	Share used magazines with friends	Toilet paper rolls
Ride a bike to school	Carpool	Use bows for decorating gifts over again	Magazines (after you've shared them with friends)
Use washable cups instead of paper cups	Combine trips in the car (go to the park and the store in one trip)	Make gift tags from old greeting cards	Cardboard
Don't turn on the lights when you don't need them	Use both sides of paper	Buy batteries that can be recharged (and recharge them!)	Glass

Eliminate	Reduce	Reuse	Recycle
Email party invitations	Turn off car engines when waiting at school	Use grocery bags to line garbage cans	Glass
Walk to school	Use both sides of paper	Use bows for decorating gifts over again	Aluminum cans
Ask to be removed from junk mail and catalogue mailing lists	Only run the washer when it is full	Use the back of "used" paper as scratch paper	Leave lawn clippings on the lawn
Use a lunch box or cloth bag to carry your lunch	Take short showers	Bring grocery bags back again and again	Newspaper
Use washable cups instead of paper cups	Pick up after your pet	Use the comics from newspapers to wrap gifts	Plastic milk jugs

Eliminate	Reduce	Reuse	Recycle
Don't turn on the lights when you don't need them	Pick up litter	Make gift tags from old greeting cards	Magazines (after you've shared them with friends)
Don't use the air conditioner in the car – roll down your windows instead	Never pour anything down a storm drain	Borrow books from the library	Toilet paper rolls
Use cloth napkins instead of paper ones	Carpool	Bring grocery bags back again and again	Compost kitchen waste
Use washable cups instead of paper cups	Take short showers	Give old toys to your kid brother	Used batteries that can't be recharged
Download songs instead of purchasing CDs (legally, of course!)	Buy soda in 2-liter bottles instead of cans	Buy things at garage sales	Plastic milk jugs

Eliminate	Reduce	Reuse	Recycle
Download songs instead of purchasing CDs (legally, of course!)	Never pour anything down a storm drain	Use grocery bags to line garbage cans	Magazines (after you've shared them with friends)
Walk to school	Pick up litter	Use the back of "used" paper as scratch paper	Toilet paper rolls
Ride a bike to school	Don't leave the water on when brushing teeth	Use bows for decorating gifts over again	Leave lawn clippings on the lawn
Use washable cups instead of paper cups	Turn off car engines when waiting at school	Bring grocery bags back again and again	Plastic milk jugs
Don't turn on the lights when you don't need them	Buy soda in 2-liter bottles instead of cans	Give old toys to your kid brother	Cardboard

Eliminate	Reduce	Reuse	Recycle
Use washable cups instead of paper cups	Turn off car engines when waiting at school	Donate old clothes to charity	Plastic milk jugs
Ride a bike to school	Take the bus	Use grocery bags to line garbage cans	Glass
Don't turn on the air conditioner at home – open windows instead	Buy soda in 2-liter bottles instead of cans	Share used magazines with friends	Compost kitchen waste
Walk to school	Carpool	Use the comics from newspapers to wrap gifts	Magazines (after you've shared them with friends)
Don't use the air conditioner in the car – roll down your windows instead	Combine trips in the car (go to the park and the store in one trip)	Make gift tags from old greeting cards	Cardboard

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Use washable cups instead of paper cups	Buy soda in 2-liter bottles instead of cans	Eat leftovers	Plastic milk jugs
Don't turn on the air conditioner at home – open windows instead	Take short showers	Use grocery bags to line garbage cans	Glass
Use cloth bags for groceries	Follow instructions when using cleaners and other chemicals	Share used magazines with friends	Magazines (after you've shared them with friends)
Walk to school	Carpool	Donate old clothes to charity	Aluminum cans
Don't use the air conditioner in the car – roll down your windows instead	Combine trips in the car (go to the park and the store in one trip)	Make gift tags from old greeting cards	Cardboard

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Download songs instead of purchasing CDs (legally, of course!)	Never pour anything down a storm drain	Use grocery bags to line garbage cans	Leave lawn clippings on the lawn
Walk to school	Pick up litter	Donate old clothes to charity	Toilet paper rolls
Use washable cups instead of paper cups	Pick up after your pet	Bring grocery bags back again and again	Compost lawn clippings
Don't burn garbage	Turn off car engines when waiting at school	Use bows for decorating gifts over again	Plastic milk jugs
Don't turn on the lights when you don't need them	Use both sides of paper	Give old toys to your kid brother	Cardboard

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Ride a bike to school	Turn off the lights when you leave the room	Use old newspaper or shredded paper as "packing" for breakable gifts	Compost lawn clippings
Email party invitations	Don't leave the water on when brushing your teeth	Give old toys to your kid brother	Glass
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Ride a bike to school	Take the bus	Use grocery bags to line garbage cans	Compost kitchen waste
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Wrap gifts without putting them in boxes	Don't leave the water on when brushing your teeth	Eat leftovers	Plastic milk jugs
Don't turn on the lights when you don't need them	Follow instructions when using cleaners and other chemicals	Bring grocery bags back again and again	Used batteries that can't be recharged
Walk to school	Take the bus	Use grocery bags to line garbage cans	Computer paper (after used on both sides, of course!)

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Eliminate	Reduce	Reuse	Recycle
Don't burn garbage (burning causes air pollution)	Pick up litter	Use the comics from newspapers to wrap gifts	Newspaper
Sweep sidewalks and driveways–don't hose off	Pick up after your pet	Borrow books from the library	Glass
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Don't turn on the lights when you don't need them	Turn off car engines when waiting at school	Eat leftovers	Magazines (after you've shared them with friends)
Ask to be removed from junk mail and catalogue mailing lists	Turn off the lights when you leave the room	Share used magazines with friends	Compost kitchen waste

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Ride a bike to school	Take the bus	Use the back of "used" paper as scratch paper	Compost lawn clippings
Use washable cups instead of paper cups	Never pour anything down a storm drain	Use grocery bags to line garbage cans	Glass
Ask to be removed from junk mail and catalogue mailing lists	Carpool	Use gift bags over again	Plastic milk jugs