



What is this book about? This book is about water. Do you want to keep animals, fish and birds healthy? Do you want to make sure that water is safe to drink? Do you want to make sure there is plenty of water? Do you like to have fun with water? Do you care about water in your neighborhood?

You can do something! This book is your guide to action. It will help you figure out what you can do to protect water. You can use this book with a group of friends or by yourself.

Go ahead-try it. Investigate the water in your community. Give Water a Hand.

Here's what you will do:

1	Focus on water 3
	Decide to make a difference! Go outside to see where water goes when it rains. Notice any problems caused by what it passes on the way.
2	Research needs for action 6 In this activity, you will choose one of four checklists to help you decide what project to do. To find out what happens to water, choose a checklist for your school (page 9), home (page 17), community (page 25), or farm/ranch (page 32).
3	Map your watershed40You live in a watershed! In a watershed, all water drains or "sheds" to the same place. To protect water, you need to know where it goes and how it gets there. Your watershed map will help you see what happens.40
4	Ask an expert for help 46 Experts are people who know a lot about something. There are many kinds of water experts in your community. They want to help. Find out who they are and tell them what you have learned so far.
5	Choose a project
6	Plan for action55Who will do what? How will you do each step? When will you be done?
7	Stay on track59Hey, you don't have to be perfect. Check out this section for help to make sure you do your best.
8	Celebrate your success 61 Congratulations — You made a difference! Now it's time to celebrate.





You can make a difference for your community and for planet Earth. Your ideas, energy, creativity and hard work can help. This *Action Guide* will help your group choose and organize a service project. Here are some tips to get you started. Let's get going!



## Make a project notebook

You can make your own notebook or buy one. There are model pages at the back of the Action Guide to photocopy if you want to make your own.

Decorate your notebook any way you like. Use your notebook to keep notes, names, and phone numbers as you go.



This guide gives you eight project steps. A timeline will help you figure out how much time you'll need for each step. Look through the book with your leader. Fill in the estimated starting dates for each activity.



### Collect maps

To really understand your watershed, you will need to study a topographic map. Your leader can help you find one for your area. You might also

want a town map and photos taken from the air.



#### Get help from

An expert Experts from many groups are ready to help you do your best job. Ask your leader or teacher to help

you find the right person for your project. See the back cover of the Action Guide to learn more about how experts can help.



## Why is water so important?

Did you know that you are mostly water? Two-thirds of your body is made up of water. You probably drink for six to eight cups of water, milk, fruit juice, or soda each day. Animals and plants are almost all water too. So we don't just use water, we **are** water.

Three quarters of the earth is covered 2 with water, and although most of it can't be used by people, plants or animals, water makes life on earth possible. You depend on water for drinking, cleaning, growing and processing food, growing cotton for cloth, swimming, fishing, 2 boating, cooking, putting out fires and generating 2 electricity through hydropower dams. Try to think of one item or action that doesn't involve water in some way!

Water also connects us to the rest of the natural world – plant and animal communities depend on water in many of the same ways: for food, water and shelter. Since every drop is used again and again, water is the ultimate in recycling. It's important to protect this precious resource because we share it with all other living things, past, present and future.

Unfortunately, people have not always used water wisely. We've over-used it to carry away our waste. We've put hazardous in a materials in or on the ground where they seep into groundwater. We've often used more water than we need. Yet we can improve our water resource by conserving water at in home, cleaning waste from industries and cities before it returns to rivers or lakes, and preventing pollutants from homes and farms from washing into waterways with the rain. Some communities have already begun to help!

One of the ways we can have a big effect on improving our water quality now and protecting it from future pollution is changing the small ways that people affect water. What you do in your community, or in your house, yard, road, park, business, school or farm or ranch can conserve water and improve its quality. You've started to make a difference by picking up this book. Keep going to learn what you can do to Give Water a Hand!



To keep water clean or to make sure there is plenty to drink, we need to understand where water comes from, how it flows and how it's used at home, in schools, on farms or ranches, and in the community. In other words, it's time to get to know your watershed!

### What to do

A Go outside and survey your surroundings. You can start anywhere — at your home, school, farm, or even downtown. Go to the highest point you can see within easy walking distance. If possible, go to the highest point in your community.





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Look over the land and the way the ground slopes down from this high point. If it rained, where would water flow? You're looking at a watershed or several watersheds. That is the area of land where all water drains, or "sheds" to the same body of water.

Walk around this area. Look for the following things in your watershed. Make a list of what you see in your notebook.

In my site, water	flows to:	
$\Box$ low points	□ gutters	storm drains
□ ditches	Iakes/streams/rivers/ponds	□ culverts
On its way, it pas	sses:	
□ bare soil	$\Box$ vegetation (grass/trees/shrubs)	□ wells
□ streets	shopping centers	parking lots
industry	□ school	houses
□ litter	□ farms	animals

If anybody in your group likes to draw, sketch a picture of this view of your watershed. Or have a camera to document all you do from the start. In step 3, we'll coach you on how to draw a map of your watershed.

#### Does anything you see look like a possible water concern?

• For example, is there bare soil; is there erosion with soil washing into waterways?

#### Can you find places where water has been carefully protected?

• For example, is grass planted on paths to keep soil from washing away?

Use your notebook to write down things you like and things that don't look right or you want to question later. If you aren't sure which things are helpful or problems, just record what you do see for now. In the next step, we'll be looking for ways to help water.

Brainstorm a list of the ways you can affect water. Be sure to think of activities inside and outside. See how many ideas you can come up with. Two examples are: watering the grass and having a school car wash. Have someone write down the activities you come up with in your notebook.

- · What activities use water?
- · What activities create waste water?
- · What kinds of fun do you have with water?
- What do you already do to conserve or protect water?

**B** Use the Power Words for any words that are new for you. Answer the Notebook Questions below.

List at least 10 ways you personally use water. For each, list how you might reduce or improve your use.

> List how people affect water in good and bad ways.

# CONSERVE Using natural resources, such as water, in a way that doesn't harm them or use them up.

ver words

Groundwater Water found in the ground in cracks and spaces between rocks and soil particles.

## Hazardous materials Materials that can cause harm to people or the environment.

Pollution An undesirable change in air, water or land that can cause harm to human health, animals or plants. Hazardous chemicals and animal waste, for example, can be pollutants.

Water quality "Quality" means how good or bad something is. Water must be good quality, with very few pollutants, before we can drink it safely.

Watershed An area of land where all water drains, or "sheds," to the same river, reservoir or other body of water.

### Before next time...

To get ready for your next meeting, you need to choose a site to begin your investigations. There's a checklist for each site:

- □ School in the school building, on school grounds, and in camps (page 9)
- □ Home in and around houses and apartment buildings (page 17)
- □ Community around the community, in parks and in partnership with businesses (page 25)
- □ Farm/Ranch at the homestead and on the farm or ranch (page 32)

If you're not sure what site to focus on, look over the questions in the four Checklists (pages 9–39) to get an idea of the concerns you might find at each site.

 $\checkmark$  Make enough copies of the Checklist for your site to share with the group.



In the last activity, you looked at your watershed and noted some features. You began to think about ways you use water. Now it's time to investigate.

Find out where people are protecting water and where the real problems are. Your group will use a Site Map and a Checklist to help you identify specific water problems, and determine which ones need your action. You'll find out what is already being done and what still needs to be done to protect the watershed and conserve water. This will help focus your work on a *real* need so your time is well spent.

#### What to do

you are here

A To do this activity, you need to choose a site for your project and make copies of the Checklist you'll need (see Before next time..., page 5). You'll find the Checklists on pages 9-39.

Make a Site Map, like the one below.

Site maps can make problems easier to understand. Ask the landlord, farmer or other person in charge for a drawing of the site, blueprints or a floor plan. If nothing like that is available, draw your own Site Map. If you're focusing on an inside project, **be sure to label all places water is used** and make note of where the water meter is. If you're working outside, include things like trees, fields, parking lots, buildings, downspouts, storm sewers, or anything else you observe on the site.



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You may need to ask someone in charge, like the principal, to get something changed. Make sure you have permission from your school principal before you begin. He or she will give final approval for any projects. You may also want to talk to the school custodians. They keep the school clean, safe and in running order and have information you might need. If you want to change how something is done in your school, the custodians and principal can be a big help.

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<b>⇒12</b>	Does runoff whic nants such as pe reach streams or	h might contain contami- esticides and fertilizers ponds?					
	• Test a sample of runoff to see if you find nitrate High levels of nitrates c indicate that there are c	water immediately after a rainfall begins s. Compare these results to tap water. an cause health problems and may other contaminants. Contact your County al department of public health for help.			L L		
	•	< to see if it might actually be a asin designed to catch this type of runoff.		y. <u>~</u>			
	□ Looking Good!	$\Box$ We need more information.	Priority	1	2	3	
	What we found out						
	vve need more into abou	t					
<del>9</del> 13	Does the mainten needed on the so	nance staff use only the ar chool grounds?	nount of	ffert	tilize	rs	
	•	fore applying the fertilizers?					
	Do they use organic fer	tilizers such as compost, biosolids or ma	nure?				
	□ Looking Good!	$\Box$ We need more information.	Priority	1	2	3	
	What we found out			•••••			
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<b>9</b> 14	Does the mainter covered sidewall	nance staff spread sand ra ks in the winter?	ther tha	n sa	lt or	ice-	
	Commercial salt can ha	arm plants, grass, trees, and animals, a	-		dies.		
	<ul> <li>If they are required to u</li> </ul>	se salt, do they use the minimum amoun	t necessary	?			
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1		transport from and how it gets to	o you? Ame	ricans	)		
Do y drink	ou know where your drink more than 1 billion glasse	s of water a day! Most of us take it for gr s aloar fresh water And it's practically	anted that v	ve can n refill			
turn	on the faucet and get clea	it as 000 times for the same cost as a	six-pack of	soda			
an 8 For	most people, water treatn	nent facilities provide this safe drinking	water.				ø
Y Y	1	conserving this vital, precious resource Water a Hand — It's ours to drink!			0,		
				100 million -	<u>لــــ</u>		

×15	Do the faucets in your bathrooms, showers or drinking foun- tains have leaks or dripping water?
-----	--

School Vlist

		Take a walk through your school and water meter reading at the end of the water from a well, you may not have janitors to make sure that no one will and using water. First thing the next r arrives at school, check the meter ag you probably have leaks somewhere	e school day. (I a water meter be using the I morning, befor jain. If the read	If your so .) Check ouilding t e anyone	chool gets with the hat night e else	
		□ Looking Good! □ We need mo	ore information			
		Priority 1 2 3				
		What we found out				
	We need more info al	bout				
×16	Use a gallon bucket a of water used per min to a normal flow. Star catch water in the buc the stopwatch. Empty you reach 1 minute of more than 2 gallons for shower, your faucets	ool have low flow faucets a and locker rooms? and a stopwatch to time the amount nute. Turn on the shower or faucet t the stopwatch when you begin to cket. When the bucket is full, stop the bucket and do it again until n the stopwatch. If the result is or the faucet or 2.5 gallons for the and showers use too much water.	regular	1	2 3	low
	We need more info al	bout				
×17	least amount o	lve on the toilets adjusted s of water possible? You may nswering this one.	so that yo need to a	ou use ask a (	the custo-	
	□ Looking Good!	$\Box$ We need more information.	Priority	1	23	
	What we found out					
	We need more info al	bout				
	We need more info al					

<u>818</u>	Does your scho tem?	ol cafeteria have an efficie	ent dish w	/ash	ing s	sys-
	<ul> <li>Do the kitchen staff ru</li> <li>When washing dishes</li> </ul>	un the dishwashers only when they are for s by hand, do they turn the water off in b	ull? etween rinsing	batch	es of d	ishes?
	□ Looking Good!	$\Box$ We need more information.	Priority	1	2	3
	What we found out					
		out				
¤ 19	Arbor Day, Natio	ol celebrate Earth Day, Na onal Drinking Water Week, Clean-up Day or other env	Wetlands	s Moi	nth,	
	□ Looking Good!	$\Box$ We need more information.	Priority	1	2	3
	What we found out					
⊐ <b>2</b> (	We need more info abo	out al education taught at you				
⊐ <b>2</b> C	We need more info about the servironmental top Is environmental top Are environmental top Are specific units on v Are there environmental	out al education taught at your pics covered in your classes?	r school? Adopt-A-Strea	m?		
□ <b>2</b> 0	We need more info about the servironmental top Is environmental top Are environmental top Are specific units on v Are there environmental	but al education taught at your bics covered in your classes? water issues included? ntal or fishing clubs, or activities such as	r school? Adopt-A-Strea	m?	2	3
D <b>S</b> C	We need more info about the servironmental top Are environmental top Are specific units on we Are there environment Do you have a school Looking Good! What we found out	al education taught at your bics covered in your classes? water issues included? Intal or fishing clubs, or activities such as I nature area where you do experiments U We need more information.	r school? Adopt-A-Strea and study nati Priority	m? ure? 1	2	3
⊐ <b>2</b> C	We need more info about the servironmental top Are environmental top Are specific units on we Are there environment Do you have a schoot Looking Good! What we found out	but al education taught at your bics covered in your classes? water issues included? Intal or fishing clubs, or activities such as I nature area where you do experiments	r school? Adopt-A-Strea and study nate Priority	m? ure? 1	2	3
≥\$1 ≥20	We need more info about the servironmental top Are environmental top Are specific units on w Are there environment Do you have a school Looking Good! What we found out We need more info about	out al education taught at your bics covered in your classes? water issues included? Intal or fishing clubs, or activities such as I nature area where you do experiments U We need more information.	r school? Adopt-A-Strea and study nati Priority	m? ure? 1	8	3
¤21 ≥20	We need more info about the specific units on very a school of the school of the school of the specific units on very a school of the school o	al education taught at your bics covered in your classes? water issues included? Intal or fishing clubs, or activities such as I nature area where you do experiments U We need more information. We need more information. Out. out.	r school? Adopt-A-Strea and study nate Priority for lead, l	m? ure? 1 Dacto	<b>2</b> eria	3 
220	We need more info about the specific units on we have a school of the sc	al education taught at your bics covered in your classes? water issues included? Intal or fishing clubs, or activities such as I nature area where you do experiments We need more information.	r school? Adopt-A-Strea and study nate Priority for lead, l	m? ure? 1 Dacto	<b>2</b> eria	3 
2C	We need more info about the specific units on we have a school of the sc	al education taught at your bics covered in your classes? water issues included? Intal or fishing clubs, or activities such as I nature area where you do experiments U We need more information. We need more information. OI test the drinking water ants? Donce a year? Do they keep records of the aminants within safe ranges? Contact your	r school? Adopt-A-Strea and study nate Priority for lead, l	m? ure? 1 Dacto	<b>2</b> eria	3 

What we found out. We need more info about. Your question: Looking Good! UN We need more information. Priority 1 2 What we found out. We need more info about. We need more info about. Your question:		Have you studied the qu	□ We need more information.	Priority	1	2
We need more info about.   3   Your question:   □ Looking Good!   □ We need more information.   Priority   1   2   What we found out.   We need more info about.		-				
<ul> <li>Looking Good!  We need more information. Priority 1 2</li> <li>What we found out.</li> <li>We need more info about.</li> <li>Your question:</li> </ul>		We need more info abou				
□ Looking Good! □ We need more information. Priority 1 2 What we found out. We need more info about. Your question:	3					
What we found out. We need more info about. Your question:						 2
We need more info about		What we found out				
<b>T</b>						
	4	Your question:				
$\Box$ Looking Good! $\Box$ We need more information. Priority $1$ ${\bf 2}$ What we found out.		-				2
We need more info about		We need more info abou				



Your group can do the whole Checklist together at one person's home, or you can break into teams and go to different homes.

When the questions below refer to "you," we mean you, your family members, any hired workers such as cleaning people or lawn service people, your landlord and possibly your neighbors — whoever is responsible for the action. "Home" refers to an apartment, trailer home, house, condominium, boat or whatever you call your home.

You may need to ask your parents or landlord for help to get something changed. Make sure you have permission from your parents or landlord before you begin, as they will give final approval for projects.

1 If you get your drinking water from a well, do you test for nitrates, bacteria or other contaminants?

If you live near a farm, factory, dry cleaning business or salvage yard, there may be specific contaminants you should test for. Contact your County Extension Office or public health office for information on testing.

Looking Good!	$\Box$ We need more information.	Priority	1	2	3
What we found out					
We need more info about					



	If you get your of ply, have you ev department to g ticides?	drinking water from a trea ver contacted your water s get results of tests for nitr	ted public supplier o ates, bac	c wa r loc teria	ater s al he a and	sup- ealth d pes-
	Looking Good!	$\Box$ We need more information.	Priority	1	2	3
	What we found out					
	We need more info abo	ut				
	Have you ever h	nad the water in your home	o tostod i	for l	ad2	
J		before 1984, the water pipes may have				
	before 1939, it may ha	ive lead pipes. Lead from these sources Extension Office or public health office for	s may be conta	aminat	ing you	
	Looking Good!	$\Box$ We need more information.	Priority	1	2	3
	What we found out					
	We need more info abo	ut				
4	fill a swimming pool)	ckflow prevention devices ets (including the hose yo to prevent contaminants the indoor water supply?			<b>h</b> pr	backi evention dev
	□ Looking Good!	$\Box$ We need more information.	Priority	1	2	3
	What we found out					
	We need more info abo	ut				
		ىرى مىڭ ئىلى بىرى بىرى بىرى بىرى بىرى بىرى بىرى ب				
					ont	
	Water	quality in our e	nviror	nm		
	1	quality in our e		hm		
	Round and round: v	we use the same water over and over a	again.			\$
	Round and round: w So what happens w same supply we sha	we use the same water over and over a hen we pollute water? We may contami are with other humans, animals and pla	again. iinate our wate ants. Pollutan	er supp ts can	oly — th enter t	nat he
	Round and round: w So what happens w same supply we sha water supply throug sewer, hazardous n	we use the same water over and over a hen we pollute water? We may contami are with other humans, animals and pla gh everyday activities — grass clippin naterials from a painting project being	again. inate our wate ants. Pollutan ngs washing o poured into th	er supp ts can down t ne sinł	oly — th enter t he sto	nat he rm /er
	Round and round: w So what happens w same supply we sha water supply throug sewer, hazardous n car oil being dump	we use the same water over and over a hen we pollute water? We may contami are with other humans, animals and pla gh everyday activities — grass clippin naterials from a painting project being ed on the driveway. These won't disa	again. inate our wate ants. Pollutan ngs washing o poured into th ppear and the	er supp ts can down 1 ne sinł ey cos	oly — th enter t he sto	nat he rm /er
	Round and round: w So what happens w same supply we sha water supply throug sewer, hazardous n car oil being dump remove — if they c	we use the same water over and over a hen we pollute water? We may contami are with other humans, animals and pla gh everyday activities — grass clippin naterials from a painting project being ed on the driveway. These won't disa an be removed! They can contaminate pollution is to keep it out of water in the	again. inate our wate ants. Pollutan ngs washing o poured into the ppear and the the water s	er supp ts can down t ne sint ey cos upply.	oly — th enter t he sto	nat he rm /er

				ome 🗸
₽£	supply.	e products that don't consider sible, use baking soda, vir other products which wo		
		el such as CAUTION, WARNING, and ch may be hazardous if used imprope		he item
	□ Looking Good!	$\Box$ We need more information.	Priority 1	
	What we found out			
<u>Ja</u>	We need more info abou	ut		
	Do you have any	leaks in the water syste	m in vour hou	se?
		Read your water meter before you for 2 hours or more. When you re (Make sure that there were no wa a sprinkler, washing machine or d read exactly the same, there is a	turn, check the wate ter using devices lef ishwasher.) If the m	r meter again. t on, such as
	LILISS	□ Looking Good! □ We		ion
		Priority 1 2 3		
		What we found out		
	We need more info abou	ut		
7	Do you use low-t (under 5 minutes)?	flow shower heads, and ta	ake quick sho	wers
	shower head. Start at sto watch when the bucket i	water your shower uses in 1 minute. opwatch at the same time you turn the s full. Continue until you reach 1 minu ter saving shower should use only 2.5	e water on to normal te. Count how many	flow. Stop the gallon buck-
	□ Looking Good!	$\Box$ We need more information.	Priority 1	23
	What we found out			
		and the contract of the contra	2011 201 <del>4</del>	
e L	rinking wa	ter		ļ
o you kr billion a	now where your drinking wa	ater comes from and how it gets to you ost of us take it for granted that we ca actically free. You can refill an 8 ounce	an turn on the fauce	t and get 🍾

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	-					
	Home	✔ list				
	- Ale	We need more info abo	ut			
	₽8		water off when y nile showering, w			
			□ Looking Good!	□ We need	I more informatio	n.
			Priority 1 2	3		
	00000		What we found out			
00	0 1 ( ) 0 5					
(	TRACT	( Allowed )				
1			We need more info at	oout		
	- Ale					
	9	Does your toile		(-1)-(-1)		
		5	ne tank at the back of the ne toilet bowl within 30 mi			s — don't tiush
		-	saving toilet, or a weighted water needed for each flu		or toilet dam in tl	he tank to
		□ Looking Good!	$\Box$ We need more inf	ormation.	Priority 1	23
		What we found out				
		We need more info abo				
		we need more into abo	ut	·····		
	10	J ing machine or	e dishwasher or v nly when full, usi er setting if you h	ng 📙	15	TOILET 1.6 gallons perminute
		A water efficient dish	washer should use only 1 er load, and a washing m 35 to 50 gallons per load	0 to hachine		SHOWERHEAD 2.5 gallons per minute
		with the manufacture	to see how much yours	uses.		KITCHEN FAUCET 2.5 gallons per minute
		□ Looking Good!	We need more inform	uses. mation.		z:s ganona per minore
		Priority 1 2	3		in Com	BATHROOM FAUCET
		What we found out		······   <b>2</b>		2.0 gallons per minute
				Σ		DISHWASHER 10-12 gallons per minute
	20	We need more info a	bout	X A X		WASHING MACHINE 35-50 gallons per load
C						

waste dispos	hazardous wastes such as us h, etc. to an oil recycling cen sal site? Is there an annual "c nity designated for disposal c	clean swe	eep″	day	in
□ Looking Good!	$\Box$ We need more information.	Priority	1	2	3
What we found ou	t				
We need more info	about				
<b>2</b> Do you use s	and or cat litter on icy sidew	alks inste	ead (	of sa	lt?
Commercial salt ca waterbodies.	an be harmful to grass, trees, flowers, anima	als, and can r	un off	into ne	earby
□ Looking Good!	$\Box$ We need more information.	Priority	1	2	3
What we found our	t				
		•••••			• • • • •
<b>3</b> Do you alwa	ys flush pet waste down the t 5 inches deep? <u>(</u> But if you us	oilet or b se a plast	oury tic ba	in th ag fo	e or
<b>3</b> Do you alway yard at least wastes, don' waterways.	ys flush pet waste down the t	oilet or b se a plast from was	oury tic ba shing	in th ag fo g into	e or O
3 Do you alwa yard at least wastes, don' waterways. Bury it away from	ys flush pet waste down the t 5 inches deep? (But if you us t bury the bag!) This keeps it	oilet or b se a plast from was nd wells. Neve	oury tic ba shing	in th ag fo g into	e or O
Do you alway yard at least wastes, don' waterways. Bury it away from vegetable garden!	ys flush pet waste down the t 5 inches deep? (But if you us t bury the bag!) This keeps it vegetable gardens, children's play areas, ar U We need more information.	oilet or b se a plast from was nd wells. Neve Priority	bury tic ba shing er com 1	in th ag fc g into post it 2	e or o for a 3
<ul> <li>Do you alway yard at least wastes, don' waterways.</li> <li>Bury it away from vegetable garden!</li> <li>Looking Good!</li> <li>What we found ou</li> </ul>	ys flush pet waste down the t 5 inches deep? (But if you us t bury the bag!) This keeps it vegetable gardens, children's play areas, ar	oilet or b se a plast from was nd wells. New Priority	bury tic ba shing er com 1	in th ag fc g into post it <b>2</b>	e or o for a 3
<ul> <li>Do you alway yard at least wastes, don' waterways.</li> <li>Bury it away from vegetable garden!</li> <li>Looking Good!</li> <li>What we found ou</li> <li>We need more information of the second sec</li></ul>	ys flush pet waste down the t 5 inches deep? (But if you us t bury the bag!) This keeps it vegetable gardens, children's play areas, ar U We need more information.	oilet or b se a plast from was nd wells. New Priority	bury tic ba shing er com 1	in th ag fc g into post it <b>2</b>	e or o for a 3
<ul> <li>Do you alway yard at least wastes, don' waterways.</li> <li>Bury it away from vegetable garden!</li> <li>Looking Good!</li> <li>What we found ou</li> <li>We need more info</li> </ul>	ys flush pet waste down the t 5 inches deep? (But if you us t bury the bag!) This keeps it vegetable gardens, children's play areas, ar We need more information.	oilet or b se a plast from was nd wells. Neve Priority	bury tic ba shing er com 1	in th ag fo g into post it <b>2</b>	e or o for 3
<ul> <li>Do you alway yard at least wastes, don' waterways.</li> <li>Bury it away from vegetable garden!</li> <li>Looking Good!</li> <li>What we found ou</li> <li>We need more info</li> <li>We need more info</li> </ul>	ys flush pet waste down the t 5 inches deep? (But if you us t bury the bag!) This keeps it vegetable gardens, children's play areas, ar U We need more information.	oilet or b se a plast from was nd wells. Neve Priority protect it. You	bury tic ba shing er com 1	in th ag fc g into post it <b>2</b> proba-	e or o for 3

V L	Do you use fert	ilizers and pesticides only	when ne	cess	ary?	)
		o determine if there is a need for fertilizer fice for information on how to do this.	s, and how m	uch? C	ontact	your
	•	t weeds instead of applying herbicides to	kill them?			
	<ul> <li>Do you use any orga manure or blood/bon</li> </ul>	nic fertilizers? These would be labeled or e meal.	rganic and inc	lude co	mpost	t,
	□ Looking Good!	□ We need more information.	Priority	1	2	3
	What we found out					
	We need more info ab	out				
<del>چ</del> 15	Do you keep ya	rd waste out of street gutt	ers and c	ditch	es?	
	•	ippings on the lawn to decompose?				
		res and other yard wastes, never sweepin ome cities collect leaves from the street f nent.)				
	□ Looking Good!	$\Box$ We need more information.	Priority	1	2	3
	What we found out					
	We need more info ab	out				
\$16	Do you reduce from your yard?	the amount of water that f	lows into	the	stre	et
	<ul> <li>Do you sweep your s with a hose?</li> </ul>	idewalks, driveway, or other paved areas	s rather than w	ashing	them	
	• Do you wash the car	or your bicycle with a bucket of water rat ne water doesn't run into the storm sewe		se, and	l do it d	on a
	Looking Good!	$\Box$ We need more information.	Priority	1	2	3
	What we found out					
					<u> </u>	3
	vve need more into ab	out			机	
		SKULL		D.		
						HH.
					68	

Poor yard care practices

Do you have a c ing of food wast	ompost pile as an alterna e? (Garbage disposals rec	tive meth quire lots	nod c of w	of dis /ater	spos :)
□ Looking Good!	$\Box$ We need more information.	Priority	1	2	3
What we found out					
	ut				
<ul> <li>Do you wate how much rain per wee</li> <li>Do you set t</li> </ul>	e water in the lawn and ga er only when needed? You can use a ra ain your yard has received. Most lawns ek. the lawn mower blade at 3 inches? er only in the morning and evening, whe	in gauge to de need only one	e inch (	of	
it run into the	ct water from rain downspouts toward the storm sewer or out to a paved area? a shut-off nozzle on outside hoses?	ne yard rather	than le	etting	
□ Looking Good!	$\Box$ We need more information.	Priority	1	2	3
-			_		_
	ut				
We need more info abo					

		which help the soil to retain moisture. Ins of lawn with trees, shrubs and drough	ring such as st nt-tolerant grou			
	Looking Good!	☐ We need more information.	Priority	1	2	3
	What we found out					
	We need more info abo					
20						
					• • • • • • • • • • •	
	Looking Good!	We need more information.	Priority	1	2	3
	What we found out					
	We need more info abo					
21	Your question:					
	□ Looking Good!	We need more information.	Priority		2	
	-		-			
	We need more info abo	out				



1m	unity <b>V</b> li	.st	1			
7.00	Do stores in you • aerators and low-flow s • recycled paper product • water testing kits	shower heads				
	□ Looking Good!	$\Box$ We need more information.	Priority	1	2	3
١	What we found out					
١	We need more info abo	ut				
3	Do the playgrou or does the wate	nd surfaces in your parks er run off into the street a	allow wa and storm	iter t i sew	to so versî	ak in,
Ľ	Looking Good!	$\Box$ We need more information.	Priority	1	2	3
١	What we found out					
4	Do parks ground fertilizers neede • Do they apply pesticide	ut Iskeepers use only the an ed? es only in areas where pests are found?	nount of p ?			
4	Do parks ground fertilizers neede • Do they apply pesticide • Do they test to see if fe • Do they use organic fe	Iskeepers use only the an ed? es only in areas where pests are found ertilizers are needed before applying the rtilizers such as manure, compost or bi	nount of p ? em? osolids?	besti	cide	s and
4	Do parks ground fertilizers neede • Do they apply pesticide • Do they test to see if fe • Do they use organic fe □ Looking Good!	Iskeepers use only the an ed? es only in areas where pests are found? ertilizers are needed before applying the rtilizers such as manure, compost or bi U We need more information.	nount of p ? em? osolids? Priority	besti 1	cide 2	
24	Do parks ground fertilizers neede • Do they apply pesticide • Do they test to see if fe • Do they use organic fe □ Looking Good!	Iskeepers use only the an ed? es only in areas where pests are found ertilizers are needed before applying the rtilizers such as manure, compost or bi	nount of p ? em? osolids? Priority	besti 1	cide 2	s and
°4	Do parks ground fertilizers neede • Do they apply pesticide • Do they test to see if fe • Do they use organic fe □ Looking Good! What we found out	Iskeepers use only the an ed? es only in areas where pests are found? ertilizers are needed before applying the rtilizers such as manure, compost or bi U We need more information.	nount of p ? em? osolids? Priority	pesti 1	cide 2	s and 3
°4	Do parks ground fertilizers neede • Do they apply pesticide • Do they test to see if fe • Do they use organic fe □ Looking Good! What we found out	Iskeepers use only the aned? ed? es only in areas where pests are found' ertilizers are needed before applying the rtilizers such as manure, compost or bi U We need more information.	nount of p ? em? osolids? Priority	pesti 1	cide 2	s and 3
24	Do parks ground fertilizers neede Do they apply pesticide Do they test to see if fe Do they use organic fe Looking Good! What we found out	Iskeepers use only the aned? es only in areas where pests are found' ertilizers are needed before applying the rtilizers such as manure, compost or bi	nount of p ? em? osolids? Priority	pesti 1	cide 2	s and 3
24	Do parks ground fertilizers neede Do they apply pesticide Do they test to see if fe Do they use organic fe Looking Good! What we found out We need more info about	Iskeepers use only the aned? es only in areas where pests are found' ertilizers are needed before applying the rtilizers such as manure, compost or bi U We need more information.	nount of p ? em? osolids? Priority	pesti 1	cide 2	s and 3
24	Do parks ground fertilizers neede Do they apply pesticide Do they test to see if fe Do they use organic fe Looking Good! What we found out We need more info about We need more info about	Iskeepers use only the aned? es only in areas where pests are found' ertilizers are needed before applying the rtilizers such as manure, compost or bi	nount of p ? em? osolids? Priority	l	cide 2	s and

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			lomn	<u>1</u> U1	nit	y V li
÷ 5	Do city-owned grounds hav don't waste water)?	e efficient wate	ring sys	tems	s (tha	at
	• Use a rain gauge to determine if the gra rain per week, the grass may not need		. If there is o	ne inch	or mo	ore of
	• Do they water only in the early morning	or evening, so that the v	vater doesn'	't evapo	orate q	uickly?
	<ul> <li>Do they use efficient watering devices s which spray the drops near the ground?</li> </ul>		d sprinklers	, 		
	<ul> <li>Does water trickle onto parking lots, sid the grass is being watered? If so, water</li> </ul>		- Mi			and the second
	• Do they plant trees, shrubs, wildflowers	and grasses that are ad	lapted to loc	al rainfa	all?	
	□ Looking Good! □ We need r	more information.	Priority	1	2	3
	What we found out					
	We need more info about					
\$6	Do parks groundskeepers I compost them? If they swe roads and compost them, t lakes and streams.	eep the clippings	s off the	side	walk	k and
	□ Looking Good! □ We need r	more information.	Priority	1	2	3
	What we found out					
	We need more info about					
<i>¶</i> 7	Is soil from construction si sewers? Are erosion contro sites in your area? Call the local office that issues building p find out. Ask about the requirements for	ol measures requipermits, such as county	ired on zoning or c	cons	truc	tion
		□ Looking Good!	□ We n	eed mo	ore info	ormation.
		Priority 1 2	3			
		<b>,</b>				
L		What we found out				
**						
		·····				
		We need more info a				
F						

## Community Vlist

	Dermits/inspections/buil	ding/planning or the conservation distri	Priority	k thes 1	e ques 2	tions. 3
	What we found out					
	We need more info abo	ut				
<b>9</b>	Is there a local streams and riv	group that keeps waterbo ers clean?	dies such	ı as	lake	S,
		n water quality testing and clean-ups?				
		tabilize stream banks and control erosio on Service office or state natural resour		cal Na	itural	
			Priority	1	2	3
	Looking Good!	$\Box$ We need more information.	THOMY	-	•••	v
						_
	What we found out					
10	What we found out We need more info abo					
10	What we found out We need more info abo Is there a loca ages environmental • Do they recommend • Do they monitor oil a • Do they promote filli • Do they encourage	ut	bat club the and clea	nat e	enco	
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## Community Vlist

	<ul> <li>Are fallen trees removed from the around them?</li> <li>Do bicyclists stay off the hiking tr bicycles? Bicycles can create ero</li> </ul>	ails, and bike osion on hikin	only on the g trails not d	trails c	lesigna	ated for /heels.
i	□ Looking Good! □ We nee What we found out We need more info about					
灣16 〇	<ul> <li>Does your community educate cit</li> <li>Are brochures available at community centers on and fertilizer use?</li> <li>Does the city collect leaves and brush for compos</li> <li>Is there a community compost site?</li> </ul>	water conser	vation, comp	osting,	, and p	esticide
	□ Looking Good! □ We need more inform	mation.	Priority	1	2	3
	What we found out					
91'	<ul> <li>Does your community educate cit al of hazardous wastes?</li> <li>Do you have "clean sweep" days, when citizens central location?</li> <li>Is there a hotline for citizens to call if they suspect number advertised adequately; are citizens aware</li> </ul>	can drop off h illegal dumpi	nazardous w	astes	at a	
		mation.	Priority	1	2	3
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	taminants down the			ouun		
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7 <b>1 0</b> Doe	s your city ha	ave a policy of buying mat	terials wit	h rec	vcle	d
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Your group may wish to do this whole Checklist at one farm or ranch, or you can break into teams to visit different ones.

For some items on this list, you may need to ask help or permission from your parents, the farmer or rancher, or whoever is responsible for the activity. This could also include hired help. You will probably need to ask for help from the farmer or rancher to get something changed. Be sure to get permission from the farmer or rancher before you begin the Checklist, and get their final approval before you begin any projects. You may also want to talk to your local County Extension Agent, Conservation District Officer, or Natural Resources Conservation Service conservationist for assistance in answering questions.

When visiting a farm or ranch, keep in mind that it may have been around for a long time, probably before people knew much about water quality protection. Ask the farmer how long the land has been farmed. There may be historical reasons for the way a farm is organized. For example, the well may have been placed right next to the house or feedlot because a century ago a farmer may not have had equipment to bring water from a distant well. There may be very real reasons for doing things a certain way on a farm. Remember, a farm or ranch is a business. It might be too expensive to relocate a feed-lot away from a well, or to fence cattle out of a stream bank. Also, farming requires a lot of risks, and asking farmers and ranchers to change something that "works" for them may be more of a risk than they're willing to take. Any changes made to farming practices need to make good business sense, as well as good environmental sense.

If possible, ask an Extension Agent, Natural Resources Conservation Service conservationist, or the farmer or rancher to do this needs assessment with you. He or she can be helpful in answering questions and figuring out solutions that make good sense.

When the questions below refer to "you", it means you, your family, the farmer, rancher, any hired help, or whoever is responsibility for the activity.

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	What we found out				
3	Do you mix, store and fill agricultural chempaved surface where spills cannot leak interdone a least 200 feet from wells or other ward with a looking Good!	nicals ar o the gro vater so Priority	nd fu ound urce 1	els o l? Is s? <b>2</b>	n a this 3
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2	Are livestock and poultry kept at least 100 f vent bacteria and nitrates from coming in di well water? Find the well and livestock areas and measure the distance betw	irect cor	n we ntact	lls tc : with	n the
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	• Do you have backflow prevention devices on water hoses connected to your well? These devices prevent pesticides and fertilizer solutions from backing up the hose to the well or to facets in the house. Contact your County Extension Agent or county health office for help.	<u>للاب</u> الا		pre	backflow vention device
7	• Do you test the well water each year for bacteria and nitrates,		, ,		
Ţ	and keep records of these tests to watch for changes?	ter quali	ity?		

4 Is your septic sy	stem pumped a	at least ev	ery 2 to 3	3 yea	rs?
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<ul> <li>Is it lined with concrete that no wastes can see groundwater?</li> </ul>	-				
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We need more info abou		· · · · · · · · · · · · · · · · · · ·		ARTHEN	V PITS
		manure sto	rage systems	;	<u> </u>
6 Do livestock gra	ze? If so				
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cattle crossing

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• Do you move salt licks to encourage range animals to graze in different pastures?

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V	What we found out									
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-U	Do you test soil	nutrients before adding co	ommercia	ai tei	rtiliz	ers
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17	Do you routinely	apply chemical pesticide	s? If so			
LL	•	d for determining how often to apply the				
	•	chemical methods to control pests?	pesticides:			
	•	iment with organic farming?				
	<ul> <li>Do you rinse empty per sprayer tank?</li> </ul>	esticide containers and dispose of the rir	nse water into	the pe	sticide	
	<ul> <li>Do you clean pest sprate</li> </ul>	ayers away from wells and waterways?				
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.2	<ul> <li>fields?</li> <li>Do you have a method watered enough?</li> </ul>	e the amount of water you d or procedure for knowing when to add	water and wh	ien you	ı have	ie
	<ul> <li>Do you irrigate in the e</li> </ul>	early morning or evening when water wil	l not evaporat	e as fa	ast?	
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	We need more info abo	ut				

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13 Are	e nearby wetla d herbicides?	nds protected fro	om barnyar	d runoff	, pestic	ides
dive to ke Con Natu	you have barnyard ru ersion ditches, earther eep excess runoff out tact your state water ural Resources Conse unty Extension Office	a berms, and roof gutters t of the barnyard? quality agency, local ervation Service or				
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	Looking Good!	<ul> <li>o ground water or nearby streams by</li> <li>We need more information.</li> </ul>	Priority	1	2	
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	We need more info abo	ut				
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	□ Looking Good! What we found out	□ We need more information.	Priority	1	2	3

# Educating about water

We need more info about.....

You've been learning a lot about water and how to conserve and protect it. You have probably also learned about water by reading books and magazines, watching television, going on field trips or just sitting next to a stream and observing what happens.

Many people don't know what they can do to protect and conserve water, so it's important to educate them. Action is one way people learn about water issues. There are many ways to educate through action, such as planning community water festivals, making posters, and putting on plays. Education

doesn't happen just in the classroom. Give Water a Hand — Spread the word!



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## What to do



A Collect the following materials:

- Topographic map or maps which include your site and any other maps you have collected of the area,
- a clear sheet of plastic as big as your topographic map (this plastic is called mylar or acetate and is available at art supply stores or office supply stores for a few dollars),
- a piece of cardboard as big as your map,
- · thumb tacks.
- dry erase markers & tissues.

B Look at the sample topographic map on page 42. This map includes the watershed pictured on page 40. Can you find this watershed on the map? See Using Maps, page 11 in the Leader Guidebook, if you need to learn more about how to read maps.

## Find your ecological

A mailing address helps the Post Office deliver letters to the right place. An "ecological address" can help you find rivers and streams in your community and help you find ways to work on water issues. Local streams empty into larger streams, rivers or lakes, which may empty into a larger river, which may empty into an ocean, estuary, bay or a lake. Your ecological address includes all of the land (farms, towns, mountains) around these waterways.

Richland Middle School on Brush Creek, which

drains to the Pine River, which drains to the Mussissippl, which drains to the Gulf of Mexico

and the Atlantic Ocean.

## What's a watershed?

You are part of a watershed. This means that everything you do can affect nearby surface water and groundwater, for better or worse. Your watershed is a geographical community that includes all the humans, plants and animals who live in it and all non-living parts, such as rocks and soil. As China's Emperor Yu understood long ago, whatever happens upstream in a watershed affects everything downstream. To improve the water quality of a stream, look at the whole area it drains. Anything dumped on the ground in the watershed can end up in its waterbodies. And anything released to the air can come down again, nearby or thousands of miles away. What's more, we all live downstream, either in our own watershed, or downstream from someone else's.

Think about this: most of us drink water from our local watershed. Although some people get water from elsewhere (Los Angeles gets water from distant mountains, for example), most of us get it from a local well or a nearby lake or river. It may come directly from a private well, but more likely it comes through a government water department or utility. Typically, the utility draws water from a nearby source, treats or cleans it, then pipes it to homes, schools and businesses.

After water is used, it goes down the drain, to a private septic system or through the sewer to a wastewater treatment plant. There it is treated, or cleaned, before it is sent back into local lakes, oceans or rivers. You can help yourself and the public utilities by using less water and by keeping pollutants out of wastewater.



Map your watershed:

1 Place the clear sheet of plastic over the topographic map (topo map) of your site and tack both onto the cardboard. If you don't have plastic, make a photocopy of the map and draw on it in pencil.

**2** On the topo map, find and mark your site. A road map can help you find things.

3 Find the streams, ditches, marshes, lakes, oceans or rivers closest to your site and mark them in blue on the map.

4 Use the contour lines and numbers on the topo map to find the highest and lowest points around your site. Can you find the high point you visited in the first activity? Mark all the hilltops with an "X."

<sup>5</sup> From these "Xs", draw arrows on your map to show the flow of runoff. Which direction will rain or snow flow when it falls on your school? Where does runoff flow into waterbodies? Look at the Completed Watershed Map on page 45. It has the outlines of watersheds already drawn. Look at the arrows showing where water flows. The outline of each watershed is between waterbodies, mostly along the tops of ridges or hills.

6 On your own map, find the highest ground (the hills and ridges) between two waterbodies. Draw a line along the highest points (connecting the "Xs" on hill tops) completely around your stream, including its mouth — the bottom end where it drains into another body of water.

You have now outlined your watershed. In what watershed is your site? The name usually comes from the main stream or river in the watershed. Two small streams can be part of a larger watershed. Write the name on your map.

Take map outside. What is the highest point of land you can see? Walk to that point. Is your site at the top or bottom of a hill? Where does water go when it rains or snows? Can you see the nearest waterbody? Can you see hills, mountains, buildings, airports, power lines, railroad tracks or other things that are on the map? Look at your map and find these features. Mark the features you noted in the first activity on your Watershed Map.

Where does your site get its drinking water? The person in charge can help you figure out the answer to this question and the next one. You may also need to call the water utility that pumps water to your site. Find and mark the source or sources if they are on your map. If the source is underground water, it is an aquifer.

Where does your site's wastewater go? Wastewater may be filtered through a septic tank or pumped through underground pipes to a wastewater treatment plant. Find out where your wastewater goes and and mark it if it's on your map.





# Hints for mapping Think like water. Water always flows downhill, and it

always takes the easiest path. If you go outside and look or walk downhill from your school - never going up - you will come to a waterbody sooner or later. It may flow underground in pipes. Look for openings where water enters the storm drains.

In urban areas, streams sometimes flow through pipes underground. If you live in a city or large town, ask an expert if there used to be any streams or wet areas in town. Even water flowing underground through pipes must drain into a body of water at some point. You may want to ask a staff person from the city government to visit and demonstrate how the storm water system handles runoff from your site.

In dry climates, streams and rivers may only flow after snow melt or during the rainy season. Look for driedup waterways.

Describe your watershed. What kinds of plants and animals live in it? Is it in a city or the country? Tell a story about a rain drop that falls on your site.

Where does your site's drinking water come from?

Where does your wastewater go?

Keep your Watershed Map. You'll need it later.

Altitude How many feet something is above sea level. (The sea is a good place to start because it is nearly the same height all around the world.)

et words

Septic tank An underground storage tank for waste from homes with no sewer line to a treatment plant.

## Topographic map A map with

lines to show the height or altitude of hills, valleys, and mountains. Each line connects points at the same altitude.

Waterbody A specific area where water is found, such as a stream, river, wetland, pond, reservoir, groundwater, lake, or ocean.

## Wastewater (sewage) treatment plant A place where

used water (from toilets, washing machines, industries) is pumped to be cleaned and purified before it is returned to local waterbodies.

Watershed An area of land where all water drains, or "sheds," to the same river, reservoir or other body of water.

# Before next time...

Invite one or more experts — possibly your local partner to meet with your group. The person you invite and the information you provide ahead of time are very important. Provide an agenda for the meeting with the date, time and location, and a list of your questions, so your expert will be prepared. In writing up your questions, think about what you need to know. Your Checklist may give you ideas.

If you need ideas about whom to invite, see "GET PARTNER SUPPORT" on the back cover. If you need more ideas about what questions to ask, the Skills Bank can help you get the most out of interviews (see page 63).





You can learn a lot and get more done by talking with experts who work with water issues every day. If you need ideas about whom to invite, see "GET PARTNER SUPPORT" on the back cover.

You should have prepared your guest before he or she arrives (see page 44).

Be sure to take notes while talking with experts. The Skills Bank can help you "Get the Most Out of Interviews," (see page 63).

## What to do

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Introduce yourselves to your guest. Explain that you are working on water issues and A would like ideas, information and suggestions about what you can do in your community. Briefly go over the agenda for your meeting.

Present what you have found. Show your Watershed Map or maps. Present what you B Present what you have found. Show your victoring the set of a in your site tell your site tell your you have already thought of service projects you might like to do in your site, tell your guest. Ask if he or she knows of other projects you could do. The Skills Bank can help you. See "Tell Your Story," page 63.

Ask for information and feedback. After you have made your presentation, you might ask your guest questions like:

- What is your job? How do you work with water issues?
- · What do you think are the most important water conservation and water quality issues and needs in our community? Why?
- · How do we affect water conservation and/or quality in our site?
- What projects are already being done to work on these problems? Could we do such a project in our site? What else could we do to help?
- What resources or help could you give or lend our group?

Thank your guest for sharing his or her time and expertise.

Review the Power Words for new vocabulary. Answer the notebook questions as a group or individually.

> Agenda A schedule that states what will be done at a meeting and when. Feedback Reaction to a plan or idea.

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a and organi-	
Write the name and organi- zation of your guest expert.	
List questions you asked	
the expert.	
What did you learn from	
your guest?	

P





It's time to decide! Now that you know more about water issues in your site, it's time to pick a water service project. This activity can help you to choose an existing project or start your own.

## What to do

How to use the

Choose a Project"

Think about what you know and don't know. You may already know what project you  $oldsymbol{\Lambda}$  want to do. Maybe you've heard about an exciting idea and want to join forces with a group already working on a project. Look over the questions in "Will It Work?" on page 50 to make sure your project is something you can really accomplish.

you are here

Fill out the "What We Know How to Do" boxes on the left side of the chart. List all the things you are good at or talented in. If you can't think of anything, ask your friends or family to help. Everyone is good at something! Include fun things you can do like sing, draw, fish, ride a bike as well as serious things you can do like garden, give presentations, write letters, build stuff and make posters on the computer. It takes all kinds of skills to work on water issues.

Cha

Fill in the "Priority Water Needs" boxes along the top of the chart. List the top priority needs from your Checklist or from your talk with an expert.

Under the "Priority Water Needs" list, put an "X" on any line that matches up with something anyone in your group can do that would be useful in working on that issue. For example, if you put "gardening" at left, and "plant trees, shrubs and flowers" on top, mark the box where lines from these two things meet.

Circle any Needs with lots of "X's" in their column. You have the skills to do these projects. You can now use this information to choose a project that fits your skills and interests. Describe your idea at the bottom of the chart.



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you can use to Give Water a Hand	1					K
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ur project idea is				<u> </u>		
	VRITE IN THE WATER PRO	DJECT YOU SELECT ABO	ΙE			

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If you still don't have an idea for a project, try this. Look at your Watershed Map, Checklist and Site Map as starting points. What were the priorities? Look at the lists of project ideas starting on page 51.

## Will your project work? Involve local and national experts. They have ideas, information and resources. You may use the "GET PARTNER SUPPORT" section on the back cover, or the list of national partners for Give Water a Hand (page 29 in the Leader Guidebook) to decide who could be useful to your project. For example, for a water conservation project, call the Water Environment Federation for resource materials, or call your local water utility. Discuss these questions about your project ideas: Would the project meet a real need? How do you know? (Did it appear in your Checklist? Did your guest expert discuss it? Has it been a topic in the newspaper?) Are others working on the problem? Who are they? Can you join them? Are you excited about working on the project? If not, how could you make it exciting? What difference will this project make? To you? To your site? To the people, plants and animals in the watershed? What resources do you need to do the project? (Tools, information, skills, money, and, especially, time.) Which resources do you have? Can you get What service project did your group choose? Before next Why did you choose it? ;ime... What difference will it make to you? to your school? to You'll be making a plan for action. You'll need to make enough copies of the other people, plants and Service Project Plan on page 58 so everyanimals in the watershed? one can help with ideas. Bring all your maps, charts, and notes for

planning. Invite your local partner or a water issues expert to join your group again to help with planning. There are many simple actions you can take to conserve and protect water. Look at the Project Ideas below for the kind of site you are working on to help you figure out what to do.

- LandSCape part of the school yard with native trees, shrubs, flowers, and grasses to reduce water runoff from pavement. Contact your County Extension office, Natural Resources Conservation Service office or Global ReLeaf, c/o American Forests, P.O. Box 2000, Dept. WM, Washington, DC 20031.
- USE biosolids, enriched soils or compost to improve soil quality and reduce runoff. Contact the Water Environment Federation, 601 Wythe St., Alexandria, VA 22314 (703) 684-2487.
- Research alternatives to current water management practices at your school. Look at how the school decides when to water the grounds and how it disposes of hazardous waste. Give presentations to the custodians, school board, administrators, and other school officials on the solutions you have developed. Ask for help from local Natural Resources Conservation Service staff and County Extension agents in researching water management practices.
- Make posters about proper hazardous waste disposal and put them up in classrooms where these items are used. Contact your local solid waste office, or the Water Environment Federation, 601 Wythe St., Alexandria, VA 22314 (703) 684-2487 for a brochure on hazardous wastes.
- Develop presentations or skits on water conservation for younger children. Contact: American Clean Water Foundation, 750 First Street NE, #911, Washington, DC 20002 or call (202) 898-0908, for a script called "Muddy Water Caper."
- If you have a stream, pond or wetland on your school's property, you could create a school nature area. Contact your local Natural Resources Conservation Service office, local forester, or your state Project Wild Coordinator.
- Organize a school-wide water conservation campaign, and reduce the amount of water used in your school. Contact Earth Time, P.O. Box 1111, Ketchum, ID 83340.
- Start and maintain a compost pile on the school grounds for grass clippings, sticks, leaves, and dead plants. Use the compost to enrich the soil for gardens and landscaping in the spring. Contact your County Extension Office, Natural Resources Conservation Service office, or Soil Conservation District Office for information.
- Organize a "schoolyard water patrol." Every week patrol the school grounds, looking at the grass, trees, flowers, and bushes to determine what needs to be watered and what can wait a few days. Use a rain gauge. Report this information weekly to the maintenance staff or whoever is responsible for watering.
- Compare alternative cleaning products such as baking soda, vinegar, soap flakes, or salt to specially formulated cleaning products containing strong chemicals (Remember to look for words such as CAUTION, WARNING or DANGER on the labels.) Demonstrate the environmentally friendly cleaners to the school janitors, and convince them to use them at school, where appropriate. (Some cleaning problems may require the use of strong chemicals.)
- Organize a Groundwater Festival for the entire student body. Contact: Groundwater Foundation, 5561 South 48th, #232B, Lincoln, NE 68516, (800) 858-4844 or the Water Environment Federation, 601 Wythe St. Alexandria, VA 22314 (703) 684-2487.

## Home site project

There are many simple actions you can take at home to conserve and protect water, such as turning off the water while you brush your teeth. You can discuss these actions as a group, and then implement them individually in your own homes. Or you may decide to take on a larger project together, such as building compost bins. Many of these actions can be expanded to the community setting, such as educating your neighbors about water conservation practices. See the Community Site Project Ideas for more suggestions.

- Have your drinking water tested for lead, nitrates, bacteria and other contaminants. Contact your County Extension agent, health department or public water utility for help.
- HOID a workshop for your families, demonstrating less hazardous cleaning products such as baking soda, vinegar, or citrus solvent. Begin using these products at home. For a brochure about household hazardous products, contact the Water Environment Federation, 601 Wythe St., Alexandria, VA 22314.
- Begin a compost pile in your backyard for yard waste and food scraps. If you live in an apartment building, talk to your landlord to get permission and check with other residents to see if they want to join in. Contact your County Extension agent or local Conservation District for assistance.
- Plant drought-resistant native trees and shrubs in your yard. Use biosolids, enriched soils or compost products to improve soil quality and conserve water. Contact your County Extension agent, Natural Resources Conservation Service conservationist, wastewater treatment plant, or the Water Environment Federation, 601 Wythe St., Alexandria, VA 22314 for assistance.
- Eliminate your family's need to dispose of leftover hazardous products from yard pesticides or home repair. Help your family buy the smallest amount needed when purchasing products with hazardous materials. Contact the Water Environment Federation, 601 Wythe St., Alexandria, VA 22314.
- HOID a family conference or design posters to educate your family members on smart water practices. Call 1-800-THE SOIL for a free clean water packet from the USDA Natural Resources Conservation Service.



Buy a rain gauge for your yard and monitor it weekly to see how much rain you've gotten and whether you need to water the lawn. Aim downspouts from gutters onto alwns or gardens. Contact your County Extension agent to find out how much water your lawn needs.

- Test your soil to determine how much fertilizer your lawn needs. Contact your County Extension Agent or local Conservation District for assistance. If you live in an apartment building with a lawn, give the test results to the caretaker and explain them.
- YOUF home site can include the entire apartment building. You may decide to begin an educational campaign for other residents of your building. It can be as simple as making posters about water conservation or hazardous chemical disposal to put in the laundry room, or holding a resident meeting to discuss measures that everyone can take. Be sure to talk to your landlord first!

Purchase and install aerators and low-flow shower heads in your home.

Chart how much water your family uses in a week (use your water meter). See if the amount goes down after implementing water conservation practices. For a booklet on using water meters, contact American Water Works Association, 6666 W. Quincy Ave., Denver, CO 80235.

# Community site project

FOrm a Mud Patrol team and patrol construction sites in your neighborhood. Look for run-off, erosion and other problems affecting water. Report your findings to local water experts and government officials. Contact your state natural resources agency.

Demonstrate non-hazardous cleaning products such as baking soda, vinegar, and soap flakes in shopping malls, stores, or community centers. Help people understand how to read product labels, so they use popular brands containing hazardous chemicals safely. Contact your pollution control agency or the Water Environment Federation, 601 Wythe St., Alexandria, VA 22314 for a household hazardous waste chart.

Select a section of river, stream, pond or lake to do water quality testing and monitoring, or clean-ups. Contact: Save Our Streams, Izaak Walton League of America, 1401 Wilson Blvd, Level B, Arlington, VA 22209 (800) BUG-IWLA or Global Rivers Environmental Education Network, 721 E. Huron, Ann Arbor, MI 48104.

Paint signs next to storm drains telling people not to dump into the storm sewers because they flow to waterbodies. Contact your local conservation or natural resources agency, water utility, or municipal storm water department, Sea Grant Extension Office or Center for Marine Conservation.



Make posters telling people where they can recycle used engine oil. Put posters up in automotive, hardware, grocery and discount stores. You could also make posters on environmentally sound maintenance and cleaning of water craft, and post them in local marinas or boating supply stores. Contact the Water Environment Federation for posters, 601 Wythe St., Alexandria, VA 22314.

Develop a plan to purchase and plant native trees and shrubs along waterways to prevent erosion. Plant them in biosolids enriched soils and compost. Involve Partners. Contact your local Conservation District, forester, or American Forests, 1516 P St. NW, Washington, DC 20005 (202) 667-3300 for help with tree plantings. Contact your local wastewater treatment plant or the Water Environment Federation, 601 Wythe St., Alexandria, VA 22314 for information on biosolids.

Organize a community compost site. Contact your local waste management agency or horticulture society for additional information.

Organize a community groundwater festival, lake festival or other water related celebration. Contact the Groundwater Foundation at 1-800-858-4844 or the Water Environment Federation, 601 Wythe St., Alexandria, VA 22314 for a free organizer's guide.

Design and distribute flyers to people in your neighborhood telling them about efficient watering systems, nonpoint source pollution, and other water quality and conservation practices. Restaurant table cards are another way to educate people in your neighborhood. Be sure to get permission from the restaurant manager first. Contact your County Extension Office or the Water Environment Federation, 601 Wythe St., Alexandria, VA 22314 for sample flyers and brochures.

GO ON a stream walk looking for potential problems which could affect the quality of water in the stream. Look for pipes leading into the stream, bare stream banks, industries, paved stream banks, garbage, etc. Write up a report of your findings, including suggested improvements, and give to your local pollution control agency or natural resources department.

CONDUCt an environmental audit of a government building or business in your community, such as city hall, the community center or a grocery store. Share your results and suggested improvements with the people who run or operate the building. Contact your Extension Office or State Environmental Protection Agency for help.

## Farm site project

There are several simple actions you can take on the farm to conserve water and to improve and protect water quality. You may decide to discuss these actions as a group, and then implement them individually on your farm or ranch. Or you may decide to take on a larger project as a group at one farm or ranch. Be sure to look back at your "Checklist" for additional background information and ideas for activities. Issues relating to the farm house or ranch house can be found in the Home Site Checklist.

- Start a notebook for keeping annual records of well water testing and septic system pumping. Include any records you can find from previous years. Take responsibility for making sure the testing occurs regularly. Contact your County Extension Agent for help.
- Find out if there are any old, abandoned wells on the farm or ranch. See if these wells have been properly sealed. If not, work with a County Extension Agent to seal them.
- Build a fence around the manure storage pit or pond and post a sign telling people what it is.
- Plant native trees, grasses and forbs along streams to prevent erosion. Use biosolids enriched soils or compost for planting. Contact American Forests, 1516 P St. NW, Washington, DC 20005 or your local County



- Extension Office for help with tree planting. Contact the Water Environment Federation, 601 Wythe St., Alexandria, VA 22314 for information on biosolids.
- Plant native trees, shrubs, and grasses along property boundaries and between fields to keep the wind from blowing soil away, and to create wildlife habitat. Find sources to pay for the plants or seeds.
- Develop a plan to build a storage shed and mixing platform for agricultural chemicals and fuels. Your plan should include a site map, materials list, costs and sources of funding. Build the storage shed.
- Conduct regular water quality testing of any streams, ponds or lakes on your farm or ranch to see how clean they are. Clean up any garbage in and around the waterbody. Check with your health department, County Extension Office, or local branch of the Izaak Walton League for help.
- Research and publicize state and county assistance programs designed to support sound water and soil conservation and protection practices. Contact your local Soil and Water Conservation District office or your County Extension Office.
- Develop and implement a plan to contain feedlot runoff so that it goes into holding tanks, pits or ponds rather that streams. Your plan should include a site map, materials list, costs and sources of funding. Share your plan with the farmer.
- Stake bales of hay properly in or near streams to catch soil washing in or down stream during construction or at stream crossings. If the stream is navigable, you may not be able to put bales of hay in it.
- Plant areas with bare soil around the barn and livestock feed areas with grass seed, shrubs or trees to prevent runoff.
- WOrk with a County Extension Agent to learn to incorporate new, lower impact methods, such as low or no till and rotational grazing. Discuss with farmer whether any of these activities would be feasible at your site.

Survey farmers in your community to determine if they use biosolids. Distribute educational brochures or conduct town meetings to promote and talk about the benefits of biosolids recycling.





Now that you know what project you're going to do, you need to figure out a plan of action. Using your Watershed Map, Checklist, Choose A Project chart, Site Map, notes and so on, you will fill out the Project Plan on page 58 as a group. The next step, Keep on Track (on page 59), can help you work through problems as you begin your project.

## What to do

Complete a Mind Map. You may find it helpful to use a "Mind Map" to think up all the A tasks you'll need to do as part of your project. Write your project idea in a small circle in the middle of the page. As each new idea comes to you, write it in a circle next to the thing most like it, then connect the two circles with a line. Think of the small tasks that make up big jobs. Keep going until you can't think of any more tasks that need to be done. See the sample Mind Map below.



### Fill out the Service Project Plan (page 58): Give your project a name. Make it one that people will remember. It could be simple like Jefferson County 4-H Stream Clean-Up or catchy like Mud Patrol: Erosion Prevention Program. Write in your group's name and project partners. What is the most important task on your Mind Map? Write it on your Service Project Plan under "What task?" Write the next most important thing, and the next, until all the tasks are on the Plan. KWho will do each task? Write his or her name (or names) under "Who?" This person must make sure the job gets done. He or she can ask for help. Brainstorm the resources (tools, information, people) you need to get each task done. Write them down. Could your partners or other experts or organizations help? Get a calendar. Write today's date over "start" on the Time Line. When does the project have to be done? The end of the semester? A specific month? Write that date over "finish." How many months is it from start to finish? How often do you meet each month? Calculate how many meetings you will have (months times meetings per month). Mark a line for each meeting and write a date over it. Using your Timeline, figure out when you need to complete each task. It often helps to start at the end date and work backwards. For example, if you are planning a Water Fair, think how much time before the Fair people need to know about it so they can plan to come. If they need to know two weeks ahead, then you must make all posters, radio ads, buttons, stickers, etc. and get them distributed by then. Think of ways someone might get hurt on your project. What can you do to prevent it? What would you do if someone were hurt? Write your ideas in the "Safety Plan" box. You're ready to go! Review the tips for planning, getting help and success as needed. Review the Power Words and answer the notebook questions for this step. nani Start small. Most people try to do too much. You can always do more once you show what you can accomplish You don't need to have the perfect plan. It's okay to change your plan as you need to, but it's still important to have one. Keep on track. Do you need help? See the following: Activity 7, page 59 The Skills Bank, pages 63–65 The Leader Guidebook

Keep track of everything you do, so you'll know if you are successful. See Activity 7 for ideas about how to do this.

# Get Help

You must get feedback from anyone whose help (or permission) you will need, such as the principal, your parents, the farmer. Also get feedback from someone with experience doing the kind of thing you want to do.

You can do more if you team up with other people. Your partner or other experts or organizations can give resources, help and advice. Other groups of young people may help share tasks. Who could you team up with?

## How Will You Know You've Succeeded?

How will you know when your project is finished? How will you know you have done a good job? The better you can answer these questions at the start, the better your project is likely

to turn out. It always helps to know exactly where you are trying to go. Check the Measures for Success section on page 61 for ideas about information you should collect while you are doing your project to help you explain why it was successful.

> How will you know your project has succeeded?

> > What do you need to learn more about to do your project tasks? How will you learn these things?

Mind map A way to brainstorm that helps show how one task or idea goes with another.

er words

SUCCESS Doing a good job. Doing what you set out to do.

Timeline A calendar listing the dates specific tasks need to be done.

# ervice project plan Group name \_\_\_\_\_ Partner(s)\_\_\_\_\_ Project title What task? Who? When? How?

Your timeline

start date

finish date





Now that you have chosen your project, you can get started! This step is a place to find help as you do your project. Be sure to check back here as you go along, and also use the Skills Bank on pages 63–65 for help solving problems. The Leader Guidebook has helpful information for your group, such as Working as a Team.

## What to do

A Measure and record your success. There are many reasons to show what you have done on your project. People are more likely to give permission, help and resources when you have a history of success. Newspapers and radio/TV stations are more likely to report on your work. Other young people may get excited and want to join you. And for you — it just feels good to see what you have accomplished.

#### Ways to Show What You Have Done

- Count the number of trees planted, pounds of biosolids used, or other easily counted achievements.
- How many people helped out in your group? How many experts? How many hours did each person work on the project? How many total hours did your group work?
- Count how many people heard speakers, came to school assemblies, or in some way learned something from your group's efforts?
- Count the number of gallons of water saved. Check your home's water meter once a week and graph the numbers to see if use drops.
   (Remember: things like the weather can affect your numbers. Record weather, school

closing, days off, etc. and take them into account.)

- Draw pictures or take photographs or videos of your work.
- Interview the principal, your local partner, helpful experts, or other students.
- Get letters from people you helped or worked with.

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- Write stories, a rap or song about your project.
- Make a bulletin board display for your community center or school. Include your Site Map, Watershed Map and information from your Checklist.
- Give tours or demonstrations to show parents, school officials or reporters your new nature area, recycling center, or other visible outcome of your project.

List two or three ways to show what you have done.

List partners with whom you are working.

## Tips for success

- Your Service Project Plan is a guide, not a rule book. You make a plan so everyone in your group knows what everyone else is trying to do. Yet things rarely go exactly as planned. As a group, review your plan at each meeting and change what needs changing.
- Work for a "win-win." Find out how everyone can win from your success.
- Get to know lots of people. The more people you know, the more likely one of them will know how to help. And any experts who help your group probably know other people who can help.
- Don't give up. When things don't go right, there's always one more thing you can try.
- Communicate. Everyone in your group must know what's going on. Talk to each other often. Call each other. Hold regular meetings. Work together.

## Getting past a roadblock

You ran out of money or time. Someone quit. Someone said no. Now what?

- Can you go around it? Is this the only way to do the task? Try another way.
- Can you go over it? Can you get help from the top from your principal, the county commissioner, your mom or dad?
- Can you go through it? With more help, could you push right through the problem?

## What you'll find in the leader guidebook

- · Instructions for ordering maps
- Ways to call or write Give Water A Hand partners
- Special instructions, such as tips for reading maps
- Ideas for how to raise money for your project
- National awards you can apply for

## What you'll find in the skills bank

- · Instructions for brainstorming
- · Ways to get resources over the phone
- · Tips for taking notes
- How to get the most out of interviews
- Skills for working as a team
- · Tips to help you tell your story and work with the media



# What to do

A Your project gives you a chance to do something important for your community. It is also a chance to learn to do an even better job next time. Sit down as a group and talk about what you have seen, heard, felt or learned. Share your thoughts.

### What happened?

- What was the most fun thing that happened? The least fun?
- What helped you the most? What were the biggest road blocks?
- What effect did it have on your site? On your watershed? So what?
- What have you learned about how humans affect the people, plants and animals in the watershed? How do your actions affect others?
- Did you do what you set out to do? How do you know?
- Has your work made a difference? How?
- Did your work change people's behavior?
- How would you do things differently next time?
- What advice would you give another group working on a similar project?
- What will you do to prevent the problem from happening in the future?
- What other issues or projects would you like to work on?

Celebrate! After all your hard work to Give Water a Hand, it's nice to celebrate. Not only is celebration fun, but it's a good way to say thank you to people who helped out. Invite newspaper, TV or radio station reporters to your celebration — if they run a story on your success, lots of people will hear about the importance of water issues.

#### Here are some ideas for local celebration:

- Share your success with your local and national partners.
- Invite newspapers and TV stations to come to see what you have done. The Skills Bank has tips for Working with the Media, page 65.
- Hold a pizza party or picnic.

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- Write a story for the community newspaper. Weekly or monthly papers, especially, look for local stories.
- Make T-shirts for group members with the name of your group.
- Use your imagination. It's your celebration!

Plan for future action! One of the best things about finishing a project like this is that now you have all sorts of new contacts, information and skills. You've proven that you can do something important as a team! Now — as a group or by yourselves — you might want to start new projects. There is always lots more to be done!

You don't have to start over from the beginning. Look at your Checklist, Watershed Map, Site Map and Project Notebook. Talk to your partners. What is another important need or project? Under What Happened on page 61, you talked about some other projects you might like to work on. You may know of more action you could take on the project you've just finished.

Talk again with your partners and other people you have worked with. Would they like to help again? What ideas do they have?

Make a new Mind Map and Service Project Plan and go for it!

Reflect on your accomplishments and answer the notebook questions.



# skills bank

It is impossible to foresee all the needs that might come up during a service project. Here are some ideas for helping you learn or sharpen the skills you might need to complete projects. Use these pages as necessary.

An excellent source for additional tips and information on organizing skills is *The Kid's Guide to Social Action*. (Lewis, 1991.) Some of this section is adapted from it.

# Brainstorming

There's more than one way to brainstorm. Here are a couple of ideas. Also see Mind Mapping on page 55. Brainstorming is usually followed by some sort of priority setting and/or categorizing.

## Traditional

Quickly come up with ideas in a set amount of time. Have someone write them down. This method generates lots of ideas quickly.

### Brain Hurricane

Post large sheets of paper (or divide a blackboard into sections) with a topic written on each one. Group members move from one to another and write their best ideas. Topics could come from a previous brainstorming session. This method allows everyone to contribute and to focus on the topics they know best.

#### Guidelines Brainstorming

for

Don't criticize each other's ideas. There are no "bad" ideas at this point. Write all suggestions exactly as they are spoken. Build on ideas of others. Silence may mean everyone is thinking. Don't be afraid of it.

## Getting Resources Over the Phone

The phone is a crucial tool for anyone who wants to get things done. Keep a list of all the people whose numbers you call or will need. The group leader should keep a master list and group members should write names and numbers in their notebooks.

## Phone tips

- Learn to use the phone book. The Yellow Pages list businesses by category to help you when you know what you want to buy but not who sells it; hardware stores or garden supplies, for example. The blue pages list government agencies and the white pages list individuals and, in some cities businesses. If your phone book has gray or red-edged business pages, this section will also list nonprofit organizations.
- Get permission to use the phone, especially if you will be calling long distance.
- Write out an introduction such as: "Hello. My name is Karen Jones, and I'm from the Johnson County 4-H Water Action Club. We're working on a project to stencil storm drains so people know not to dump pollutants down them, and we hope you might be willing to help us." Repeat this information if your call is transferred to a new person.
- Write down all your questions, including what you need from the person or organization. Be specific.
- Have at hand your Action Guide and any other forms or materials you might need during the call.
- Ask for and write down the name of the person you get help from.
- Write down the information you get. Repeat information such as phone numbers or addresses to check that you heard them right.
- If they will be sending you anything, give them your name (again), and your group's address and phone number.
- Before you hang up, thank the person for helping your group. Send a thank-you note if

they are especially helpful.

skills

- If the person you're calling is not available, leave a short message with your name, phone number and reason for calling. If you leave a message with a live person instead of an answering machine, also ask when you may call again.
- If your contact hasn't returned your call in a day or two, call again. As long as you're polite, it's OK to call again until you get someone.

# Taking Notes

You need to write down a lot of information and a lot of details to complete your projects. It would be very frustrating if you lost the name and phone number of the person who promised to donate ten soaker hoses after you spent two hours tracking her down. You can't remember everything, so you need to keep and organize notes.

- Write in your notebook, not on little pieces of paper. If you already have lots of little pieces of paper, copy the information or tape the notes into your notebook.
- Write a date by each entry so you know which information is most recent.
- If several people are writing notes in the same book or form, write your initials by each entry.
- Don't write every word someone says. Think like a reporter. Answer the most important questions: "Who?" "What?" "When?" "Where?" and "Why?" Sometimes you'll need to ask "How?"
- Look back over your notes as soon as you're finished writing to make sure you haven't left out anything important and that you can read your own writing.

## Get the Most Out of Interviews

• Call or write to set up an interview in advance. Tell the person what you're doing and why you want to talk. If you have specific questions, give them to the person in advance so he or she can look up or

prepare answers.

- Write your questions and number them. Number answers to match the questions. Staple your notes to your notebook or copy the most important points.
- If a person is coming to meet with you, give accurate directions and, if possible, a simple map showing the route and where to park.
- Be on time. Dress nicely to show respect. Be polite.
- Listen. Smile to show that you are interested. Make eye contact.
- Don't interrupt the person.
- Thank your expert at the end of the interview and then send a brief thank-you note. It's a good way to be remembered positively.
- Never interview someone by yourself. Always have an adult go with you.

## Working as a Team

One key to completing your project is working together as a team. Each of you will need to be a leader, and at the same time, each of you will have to be a supportive follower. Take turns at each of the roles below.

### Roles in Successful Groups

- Recorder: Take notes of important ideas. Write group decisions. Read back what you write so everyone can say whether you got it right.
- Time Keeper: Help set realistic blocks of time to discuss each item on the agenda. 20 minutes for progress reports, 10 minutes to pick the date for the final party, etc. Watch the clock and remind the group when your block of time is up.
- Participation Checker: Watch to see that everyone gets a chance to talk and that group members don't interrupt each other. Offer feedback at the end of the meeting about how the group did.
- Leader: Set the agenda, with input from the group. Make sure everyone understands the goals for the meeting. Keep everyone working on the task. The leader is not the boss, but is an organizer in charge of the meeting.





# Tell Your Story

You will need to tell people what your group is doing. You may have to explain it to water experts so they know how to help. You may want to speak to a school assembly. You may have to tell government officials or business people about a problem or solution so they can do something about it.

- Prepare. Think about who you will be talking to (your audience) and what you want them to know. Make a list of words to remind you of key points and number them. What do you want your listeners to do after you speak?
- How much time will you have? Practice once or twice with a clock.
- Speak slowly and clearly. Speak to the person in the back of the room.
- Show and tell. Pictures, videos and other evidence of your work will get attention. Think about what you can do to make your presentation interesting and memorable.
- KISS Keep It Short and Simple.
- If you will be speaking to a school board or other official group meeting, find out whether they have procedures or rules you need to follow.

# Working with the Media

Even if you don't want to be famous, it's worthwhile to get the story of your project in newspapers, and on radio and TV to alert the community to the issues you care about. News organizations generally like to cover projects by young people, especially if they can get interviews or interesting pictures such as kids building compost bins or planting trees. Partners can be very helpful and may even know reporters personally.

- Write a brief description with your main points. What message — your main idea do you want to get across? Why is this event important? How will it affect people and the environment in this community? Tell who's doing it, what your project is about and why it's happening.
- Put the description in a news release, or a one page memo, and send it to local news organizations. (See sample text below.)
   Write "news release" and a contact and phone number at the top. It must be doublespaced, and be typed or a very legible computer print-out — It cannot be hand-written.
   Get media phone numbers from the Yellow

Pages of the phone book, then call to

## FOR IMMEDIATE RELEASE

Contact Jamal Harris, Leader January 6, 1996 Pine Valley 4-H Club (000) 000-0000

4-H Club Shows Environmentally Friendly Products

The Pine Valley 4-H Club will demonstrate environmentally friendly cleaning products on Saturday, January 21 at the Pine Valley Shopping Mall, 2801 South Garden Street from 10: 00 a.m. to 3: 00 p.m.

[Provide a few details about why this is an important issue and what you will do at the demonstration.]

Together with the Valley Public Water Utility and the Pine County Office of Waste Management, the Pine Valley 4-H Club began in October of last year to research water quality management issues. They identified a need to help consumers choose the most environmentally friendly cleaning products for home use.

Pine Valley 4-H Club's project is part of Give Water a Hand, a national campaign by youth to identify and address water issues in their communities. More than 20 national environmental and water management organizations have collaborated to support Give Water a Hand.

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- University of Wisconsin–Environmental Resources Center

#### In partnership with

American Forests

American Water Works Association

- Boy Scouts of America
- Earth Force
- Global Rivers Environmental Education Network
- The Groundwater Foundation
- Izaak Walton League
- National 4-H Council

National Aquarium in Baltimore

National Association of Conservation Districts

National Drinking Water Clearinghouse

National Marine Educators Association

National Oceanic and Atmospheric Administration

National Science Teachers Association

Project WET (Water Education for Teachers)

Tennessee Valley Authority

Trout Unlimited

- United Earth
- USDA Cooperative State Research Education and

Extension Service

USDA Forest Service

USDA Natural Resources Conservation Service

US Environmental Protection Agency

US Fish and Wildlife Service

US Geological Survey

Water Environment Federation

Western Regional Environmental Education Council

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Your Give Water a Hand project will go more smoothly if you get assistance from an expert. We call these people or organizations who will help "partners." If you have already signed up with a partner from the list on the previous page of this guide, great! If not, do it now. This page can help you get assistance from these and other people.

## How Partners Can Help

All the organizations which created Give Water a Hand want to help you. Many others can help also. There are many useful things they might assist with. For example:

- Show you how to read maps or a water meter. Test water. Plant and care for trees. Raise money. Install equipment. Use tools.
- Answer questions about how plumbing works, where drinking water comes from, where wastewater goes, what animals and plants live in water, and what hazardous materials might affect people, plants and animals.
- Give, sell or lend tools, maps, brochures, posters, buttons, displays, videos, seeds, trees, equipment — even buses or cars.
- Give or get permission for you to do what you want to do. Or help you get in to talk to the county commissioner, school board, town council or mayor.
- Tell you about projects you can work on or even work with you one-on-one!

## How to Get Help from Partners

# The first trick is knowing whom to talk to. Here are some ideas:

The list of national partners on pages 29-33 of the Leader Guidebook explains what the various partners have to offer, and whether they have local contacts or offices. The project lists (on pages 50–54) give specific suggestions about what support national partners can give.

People or organizations in the community include County Extension agents, Soil and Water Conservation District staff, public water utilities, nonprofit environmental organizations, county or city waste management agencies, nature centers, and others. People at your school who could help might include your school principal, teachers, and the PTA or PTO.

#### Tips for Working with Partners

- Prepare before you call, write or meet. Be as specific as possible about how you think they can help.
- Be polite and respectful, even when you disagree or don't get what you want.
- Always give your name and the name of your group.
- Write all names, phone numbers and addresses in your project notebook.
- Say thank you. Send thank you notes. Invite partners to a project celebration.
- Only one person from your group should call. Don't confuse your partners.
- Call back after a couple of days if someone hasn't returned your call.
- Make sure you have a complete list of all your questions before you call your partner, so that you don't have to keep calling back each time something comes up.