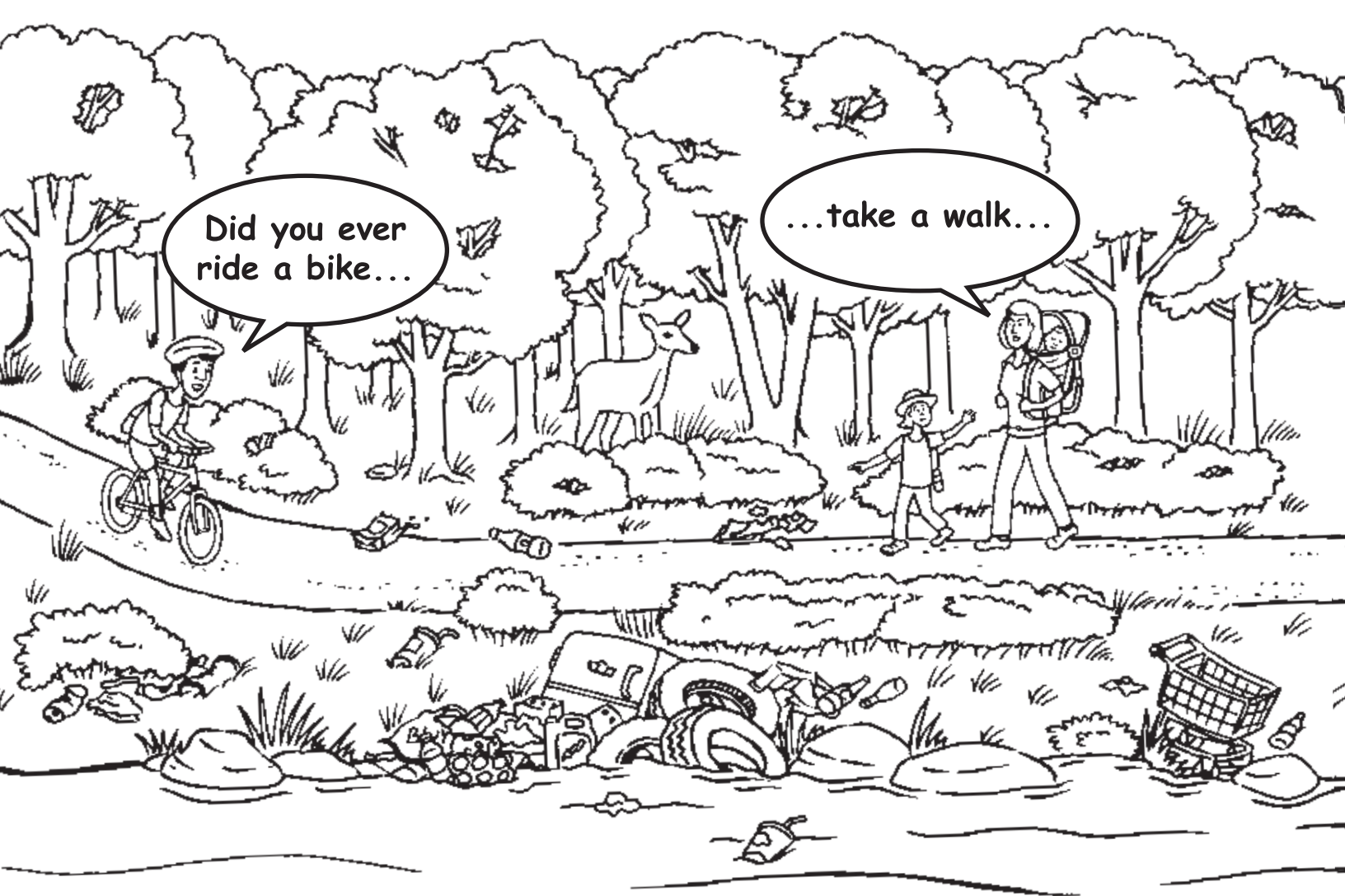
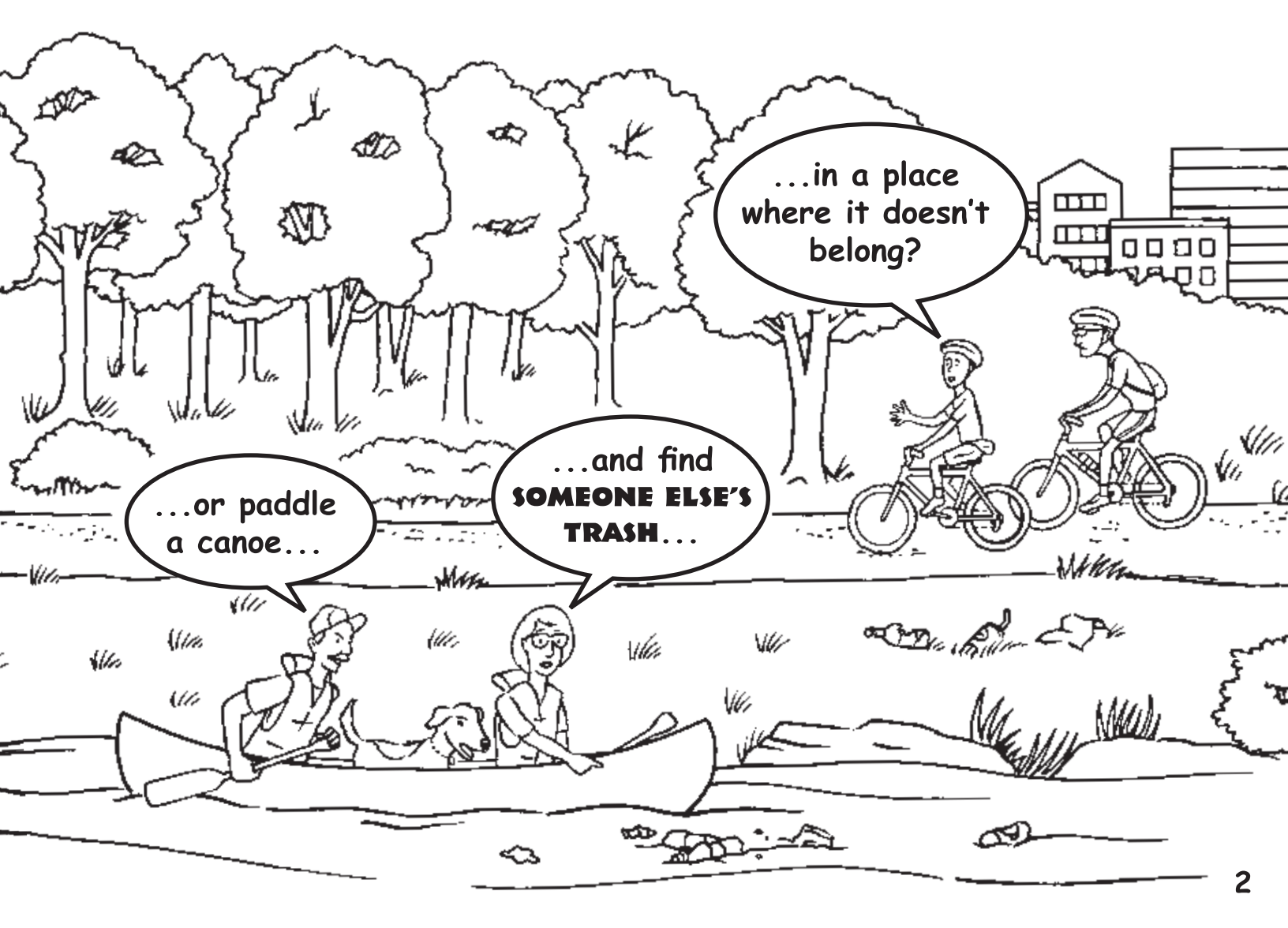


# Open Your Eyes To Litter

## Keeping Our Greenways Clean







...or paddle a canoe...

...and find **SOMEONE ELSE'S TRASH...**

...in a place where it doesn't belong?

# AT HOME...

We can easily throw trash away in a garbage can.



Or recycle plastic, glass and cans.



# WHEN OUTDOORS...



We need to do things differently.  
We must **PLAN AHEAD AND PREPARE.\***

**CARRY IT IN  
CARRY IT OUT**  
Leave nothing  
behind.

Dispose of trash  
properly when  
you get home.

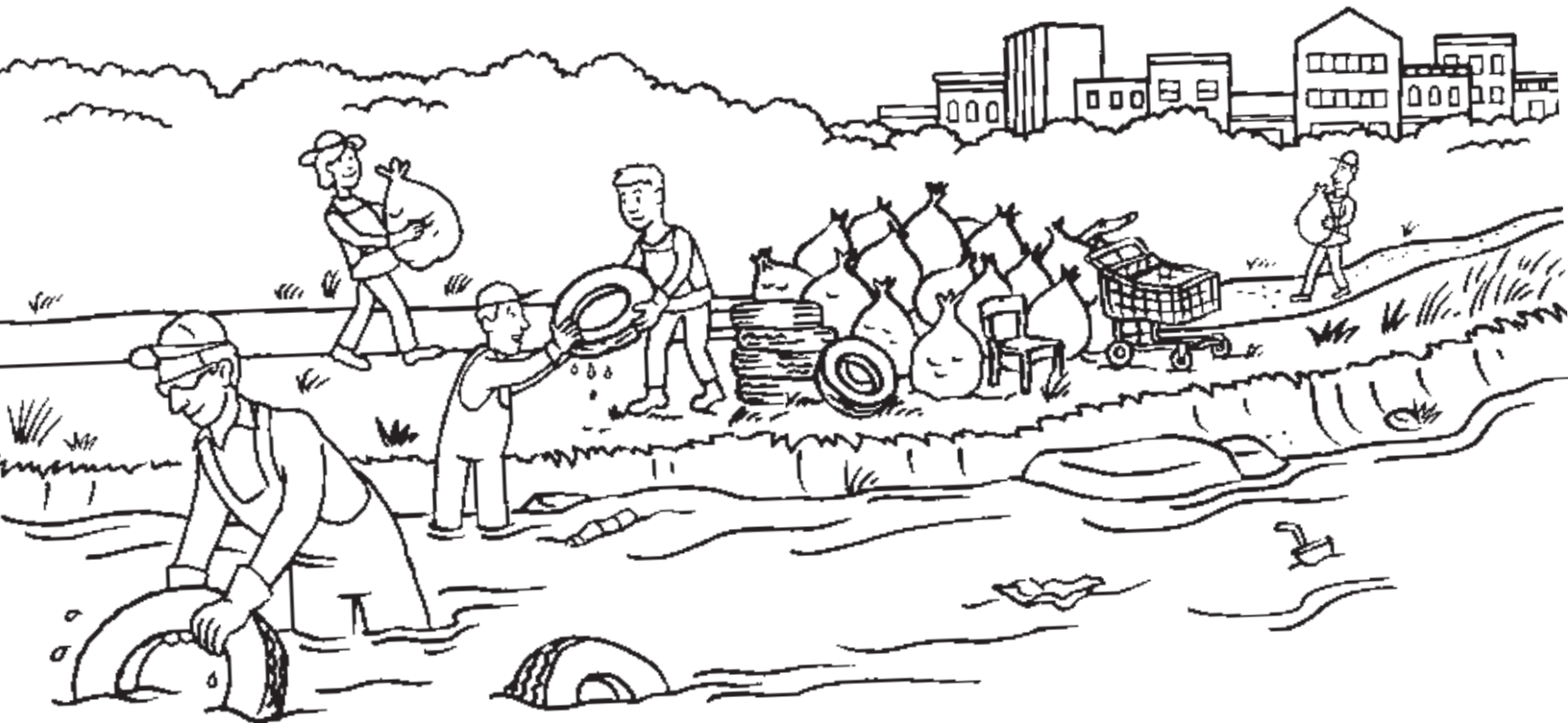


- Take nothing but pictures.
- Use **REUSABLE** water bottles.
- Carry lunch in a nylon pouch.
- Put wrappers and leftovers back in the pouch and take them with you.



**The Leave No Trace  
Center for Outdoor Ethics**  
is an organization that  
promotes proper  
outdoor ethics worldwide.

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for Outdoor Ethics. [www.lnt.org](http://www.lnt.org)*

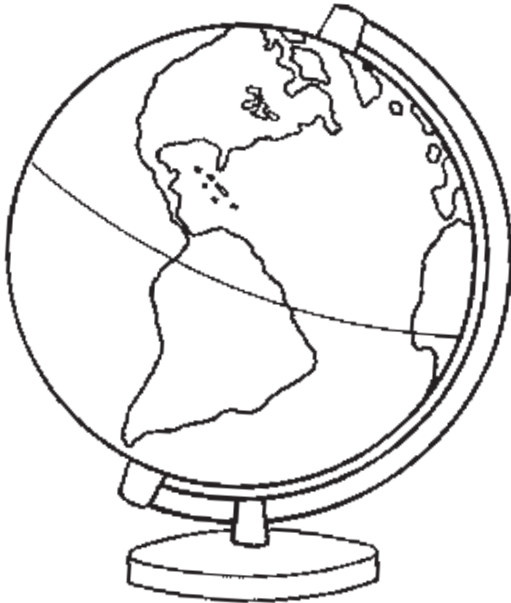


For many years **HARD WORKING VOLUNTEERS** have been cleaning up tons of litter and trash all across Pennsylvania. Trash can accumulate or be dumped intentionally. When litter and trash are left behind, wind and weather can make it worse.

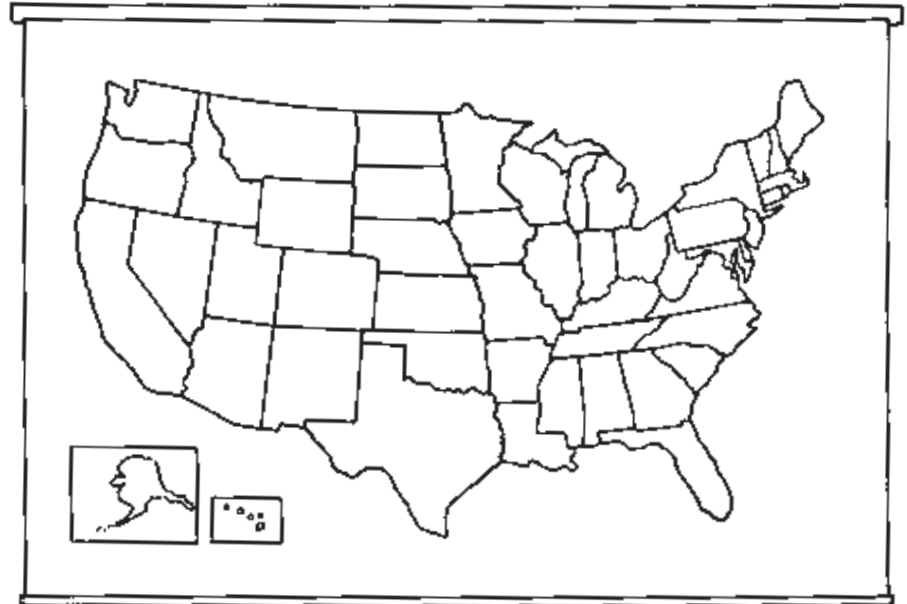


Let's take a look at some very special places  
where litter and trash do not belong.

Circle the United States  
of America on planet Earth.

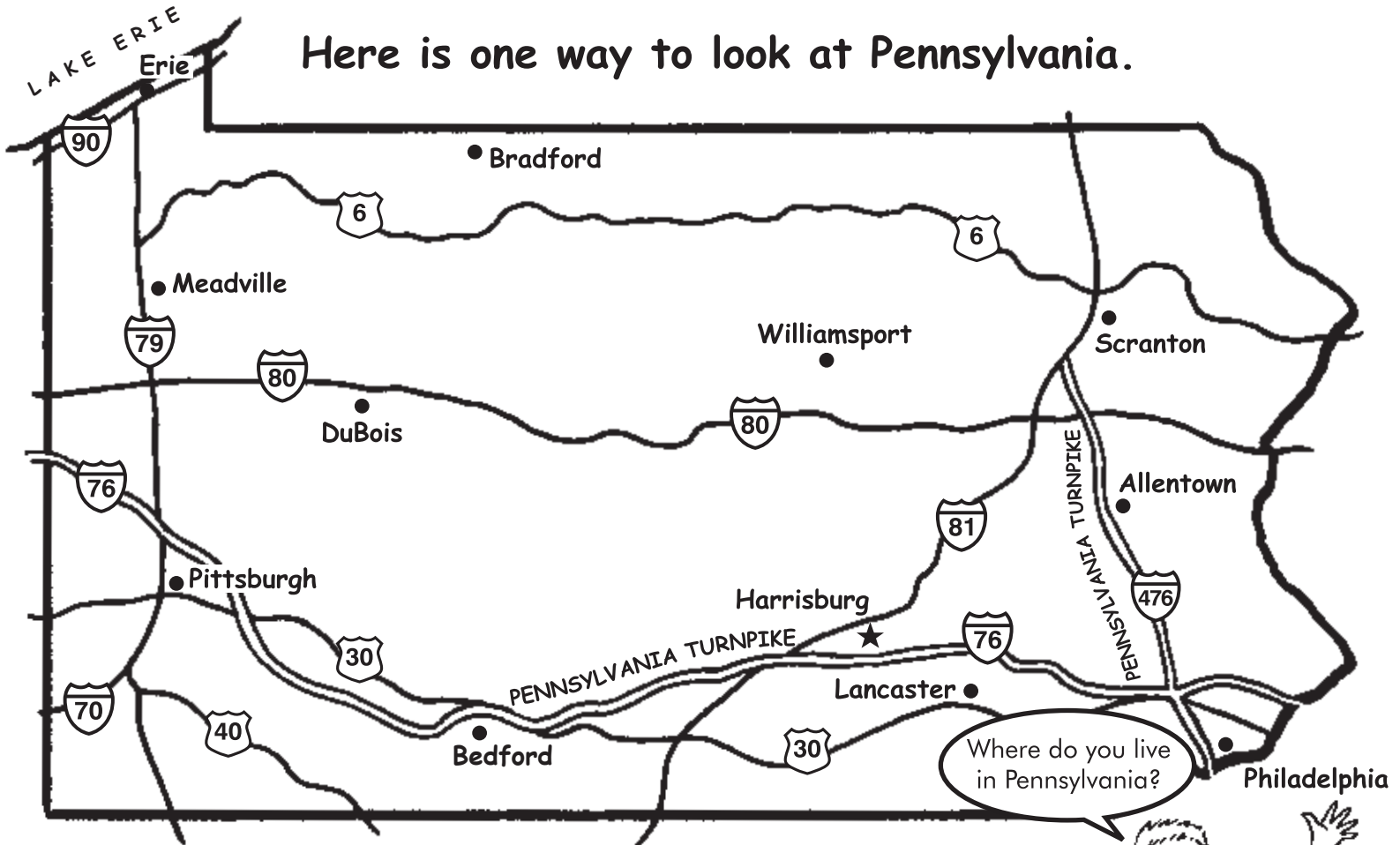


**NOW LOOK CLOSER...**



Circle Pennsylvania on this map  
of the United States of America.

Here is one way to look at Pennsylvania.

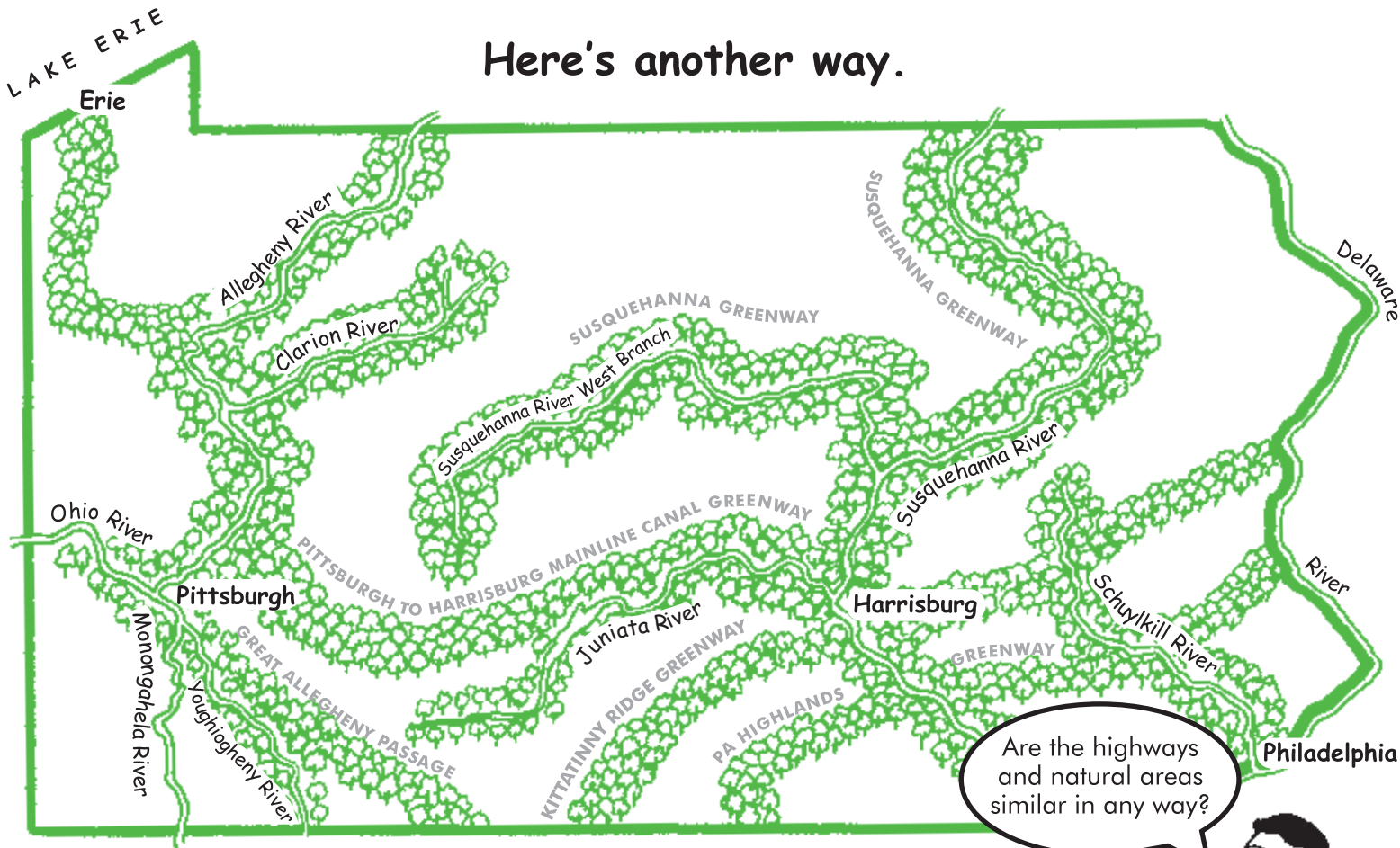


What connects the cities, communities and places on this map?





Here's another way.



What natural things help connect the communities and places on this map?



One meaning of the word “**WAY**” is a connecting route which takes us from place to place.



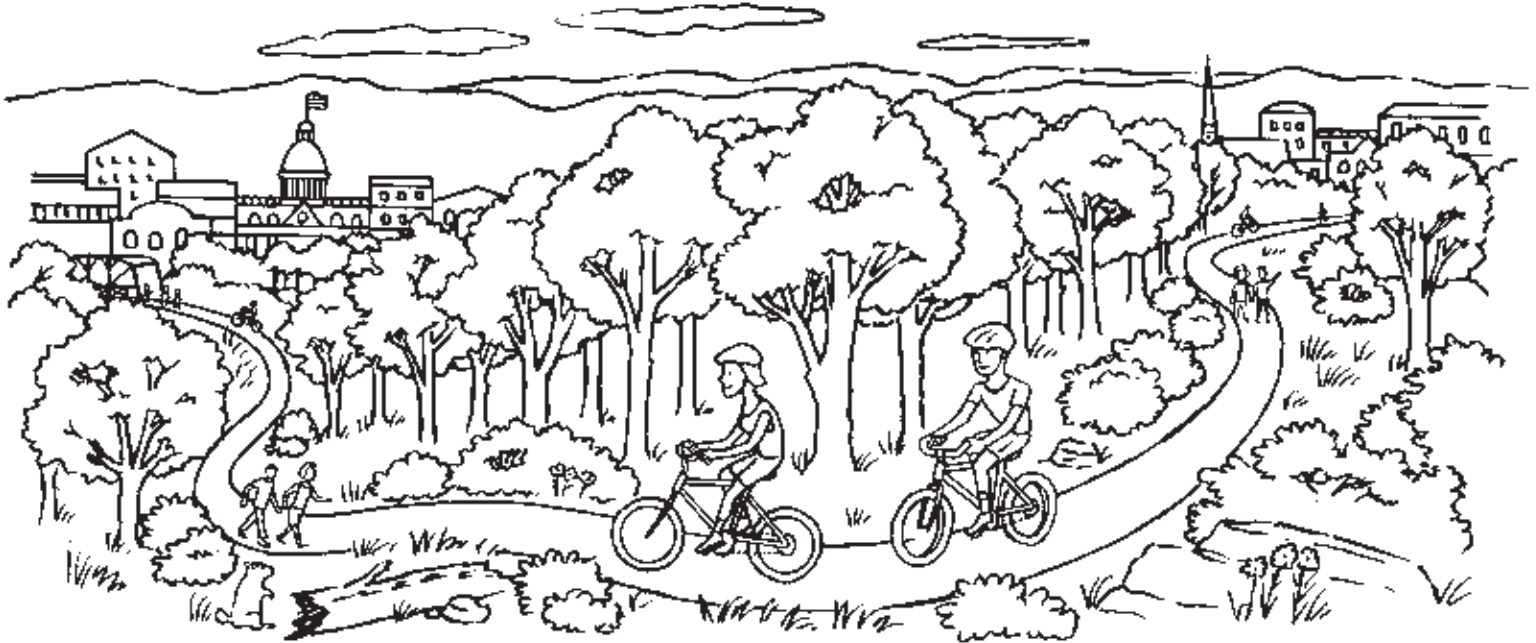
People have littered in the school!  
Who will clean it up?

In a school or large building a **hallWAY** connects one room to another.



Here is a new “**WAY**” word to learn...

## **GREENWAY**



A **GREENWAY** is a long open space which is friendly to the environment. It serves as a route connecting one place to another like a hallway.

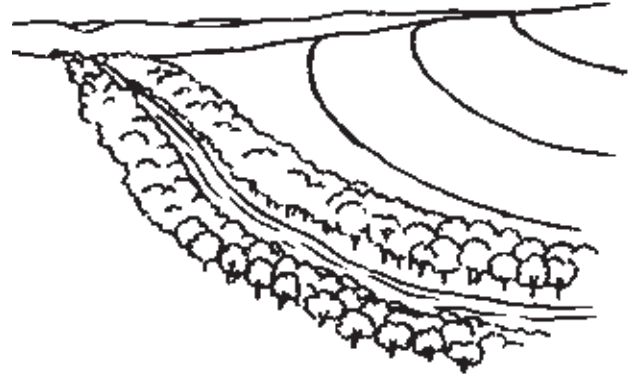
**GREENWAYS** can be **TRAILS**, **WATERWAYS** or **OPEN SPACES**.

They are very special places where litter and trash do not belong.

## **GREENWAYS** help the environment.

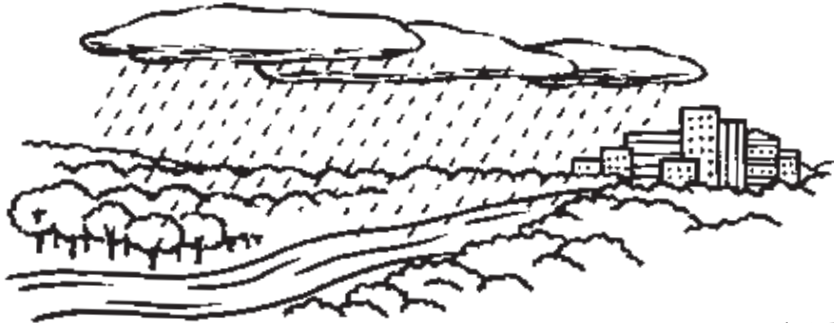


They provide a home for plants and animals called a **HABITAT**.



They serve as **BUFFERS** to help control soil erosion and protect our streams and rivers.

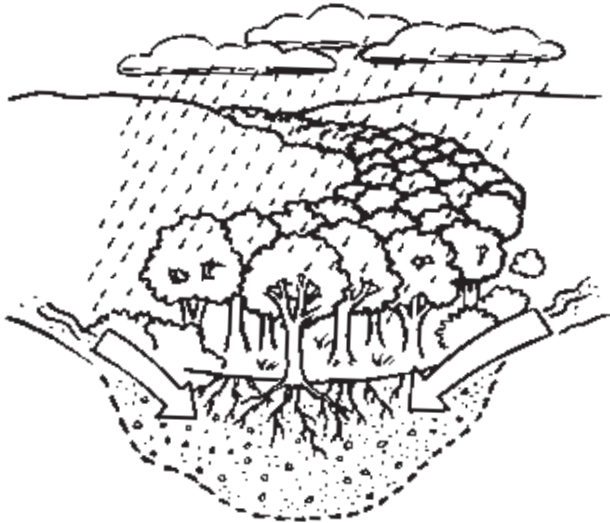
They **FILTER** stormwater to help prevent flooding and keep groundwater clean.



They are a **SOURCE** of water and seed dispersal.



They provide safe ways for animals and people to **TRAVEL** from one place to another.



They act like a **SINK** to trap sediments and nutrients that would otherwise be carried away in surface and groundwater.



**GREENWAYS** are fun to visit.

THEY ARE...

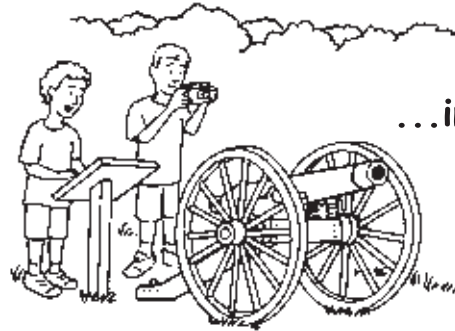


...places to enjoy family activities...

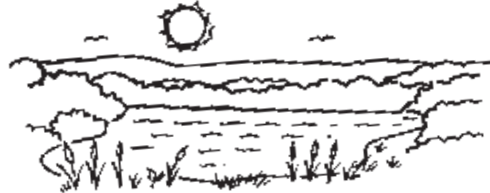


...friendly communities...

...places to learn and explore...



...interesting historic places...



...and scenic natural areas.

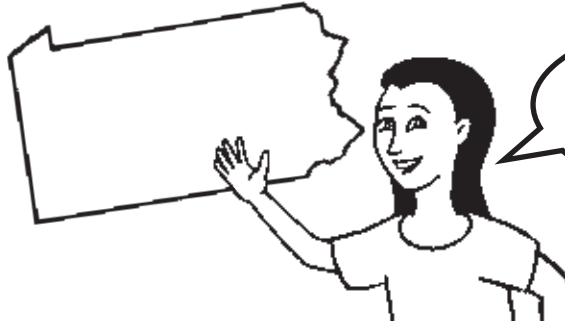
Remember, when you visit a **greenway** leave no trace behind.





Now let's take a tour of some **GREENWAYS** in Pennsylvania.

The little Pennsylvania maps on each page show where the **GREENWAY** is located.  
Do you live near one?



As we tour these **greenways** see how each of them helps the environment.

### Open Your Eyes To Litter

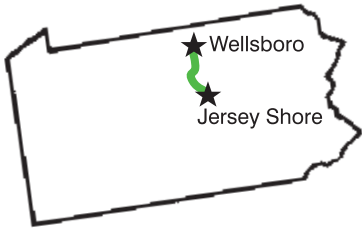
Look for litter in these **GREENWAYS**.



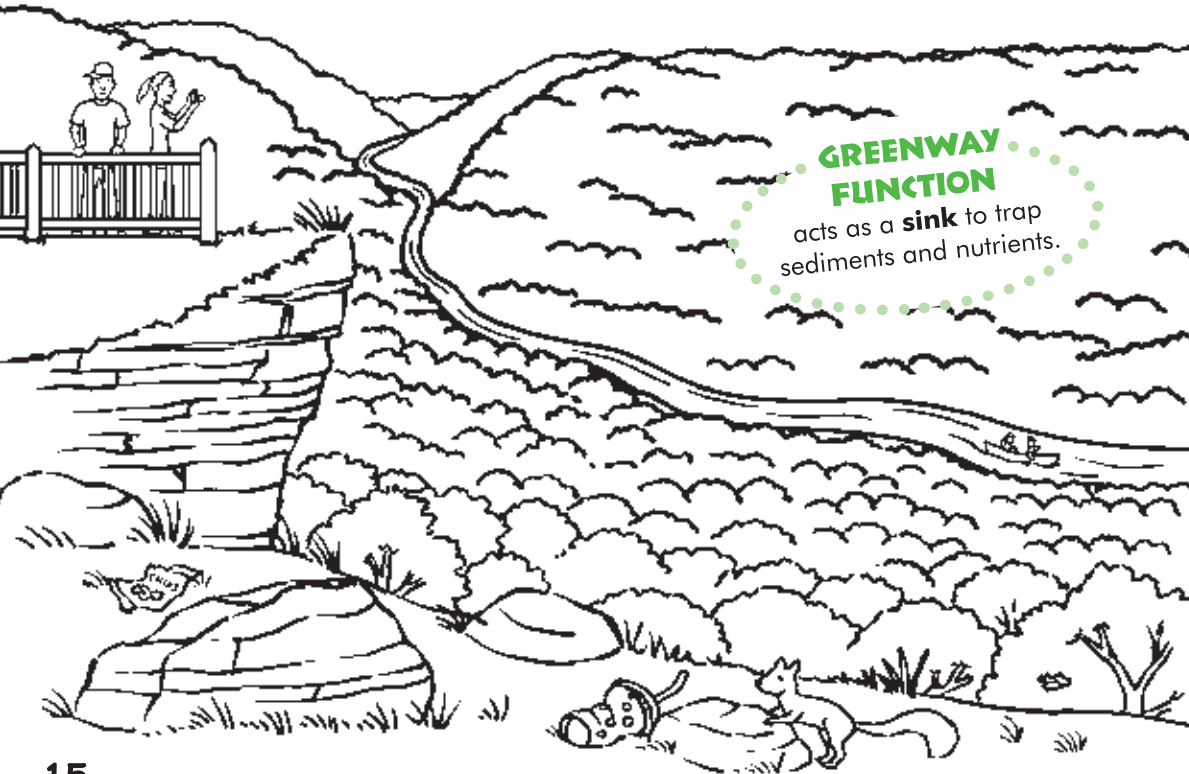
Find out how you can become a volunteer in your community.

Caring volunteers are working hard to keep these **GREENWAYS** clean.





**PINE CREEK TRAIL** is a 60 mile-long **GREENWAY** connecting Wellsboro in Tioga County and Jersey Shore in Lycoming County. You can bike, hike or ride a horse through the bottom of scenic Pine Creek Gorge. This is also known as "the Little Grand Canyon of Pennsylvania."

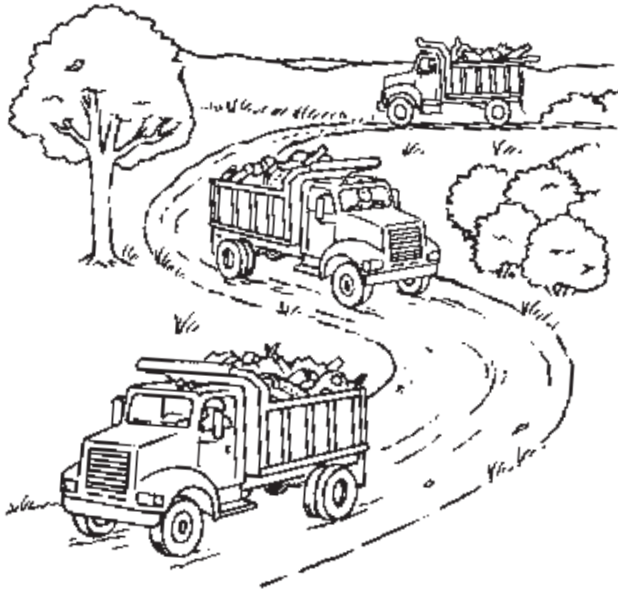


Pine Creek Trail runs through both Tioga and Tiadaghton State Forests and offers 375,500 acres combined!

Interestingly, birch stills were operated in the 1940's, producing birch oil. What are some of the uses of birch oil today?

In 1969, Pine Creek Trail was designated as a Natural National Treasure.

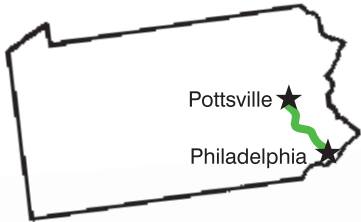
Some cleanup volunteers in the Pine Creek area needed horses to get into places that were difficult to reach. They camped overnight and picked up old bottles and trash the next day.



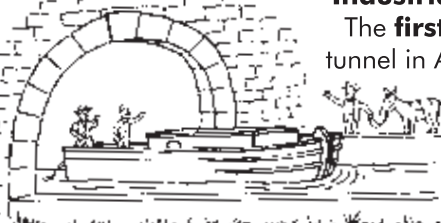
It's hard to believe, but nearly nine tons of scrap metal was also removed from the area by other volunteers and contractors.

**Figure  
it out**


How many pounds of scrap metal were removed?




**THE SCHUYLKILL RIVER** is a 147 mile-long water trail until its confluence with the Delaware River in Philadelphia. Referred to as the “Revolutionary River,” the Schuylkill played a historic part in the American, Industrial, and Environmental Revolutions.




**Industrial Revolution** - The **first** transportation tunnel in America was part of the Schuylkill Canal in Auburn, PA. 1821 – 1857



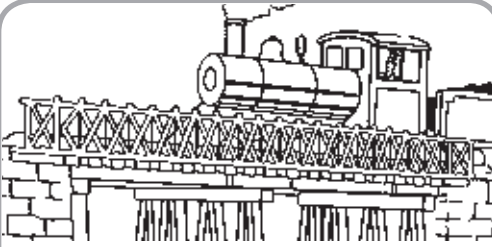
**Environmental Revolution** - Mill Grove was the **first** American home of John James Audubon.



**GREENWAY FUNCTION**  
Works as a **buffer** to protect streams and water resources



**American Revolution** - The Battle of Germantown at Clivedon and the Encampment at Valley Forge were significant events.

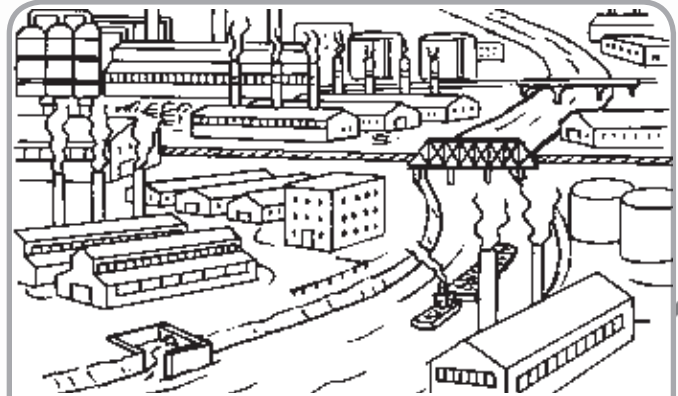


**Industrial Revolution** - The **first** American iron bridge was constructed in Pottstown for the P&R Railroad.



**Industrial Revolution** - Fairmount Water Works in West Philadelphia was the **first** American public water supply.

Fairmount Park, the **first** American public park, was established to protect this water supply.



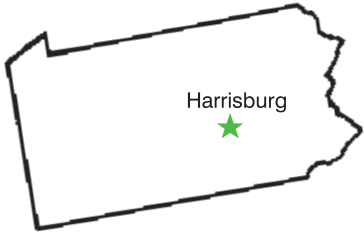
**Industrial Revolution** - The river's fast moving water powered factories and provided transportation. Large amounts of iron and coal found in the region helped make Philadelphia the "Workshop of the World."



**Environmental Revolution** - Bartram's Garden was the home of John Bartram, the "father of American botany."



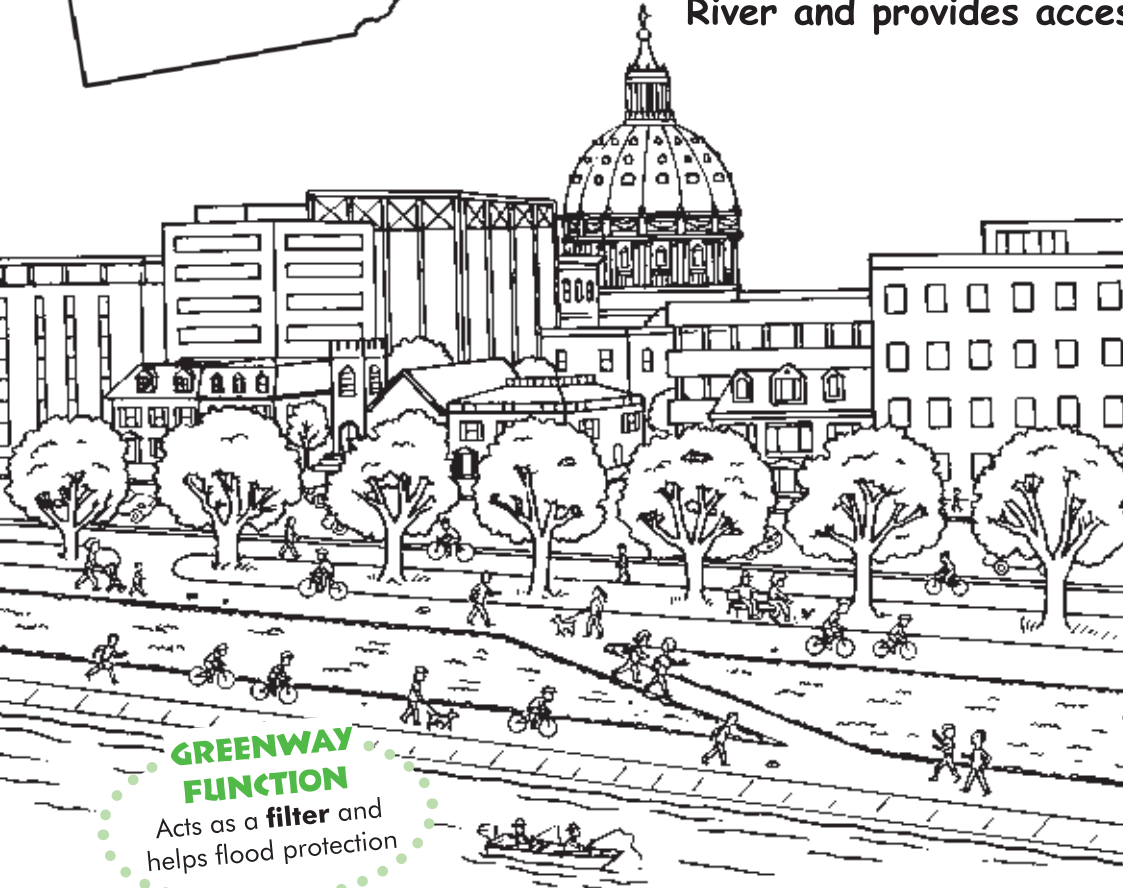
**Today** - Trails along the Schuylkill River provide recreational opportunities for biking and hiking. People can canoe, kayak, tube and fish on the river. We can learn about our past from preserved historic places.



Harrisburg



**THE CAPITAL AREA GREENBELT** is a 22 mile-long recreational trail that circles Harrisburg, our state capital. It travels along a section of the Susquehanna River and provides access to City Island.



**GREENWAY  
FUNCTION**

Acts as a **filter** and helps flood protection

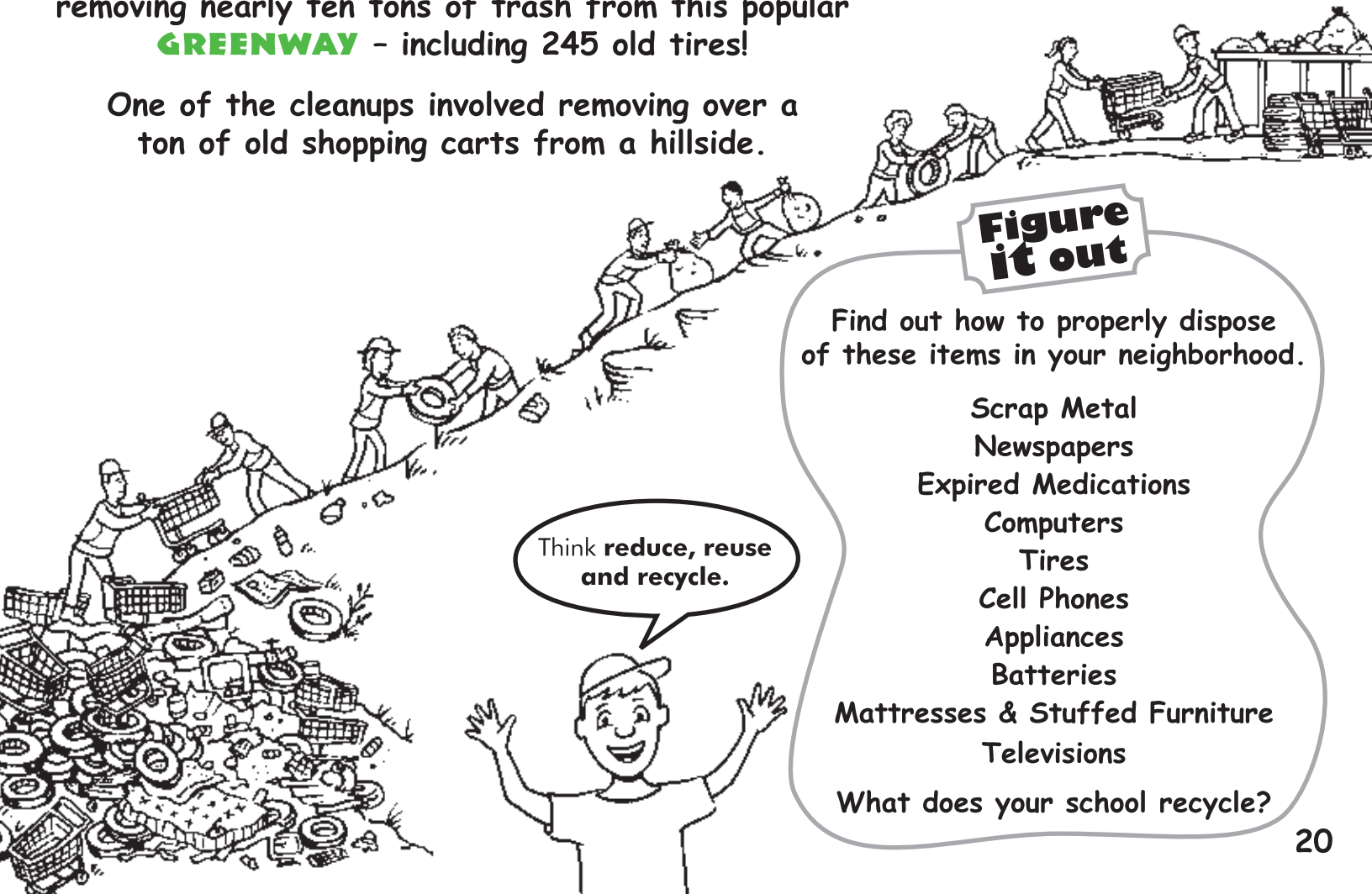


People enjoy walking, jogging or cycling as a break from their day.



Dedicated volunteers worked hundreds of hours removing nearly ten tons of trash from this popular **GREENWAY** - including 245 old tires!

One of the cleanups involved removing over a ton of old shopping carts from a hillside.



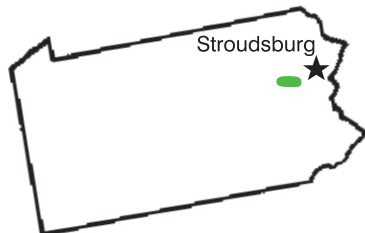
Think **reduce, reuse and recycle.**

## Figure it out

Find out how to properly dispose of these items in your neighborhood.

Scrap Metal  
Newspapers  
Expired Medications  
Computers  
Tires  
Cell Phones  
Appliances  
Batteries  
Mattresses & Stuffed Furniture  
Televisions

What does your school recycle?



Caring people in Monroe County formed the West End Park and Open Space Commission with a goal to conserve 244 acres of natural land near Stroudsburg and to help create a new **GREENWAY.**



**GREENWAY  
FUNCTION**  
Is a source  
of seed dispersal

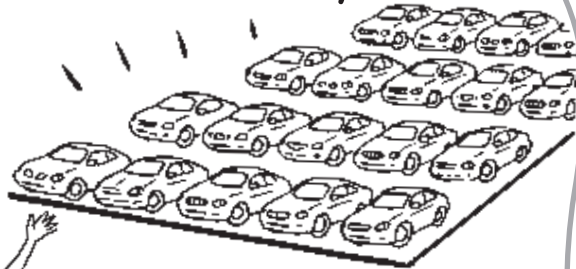
Residents are encouraged to explore the area's environmental resources and recreational opportunities.



## Figure it out

How big is this **GREENWAY** in Monroe County?

200 parked cars can fit on one acre.



1

How many parked cars can fit in 244 acres?  
\_\_\_\_\_

2

One acre is  $\frac{1}{2}$  the size of a soccer field.

How many soccer fields can fit in 244 acres?  
\_\_\_\_\_



## Challenge Question

3

One acre is  $\frac{3}{4}$  the size of a football field.

How many football fields can fit in 244 acres?  
\_\_\_\_\_

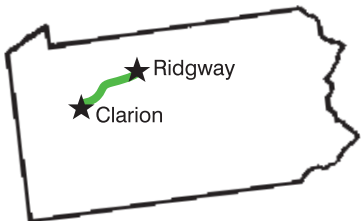


Volunteers removed 1.05 tons of trash from this natural area. Then they adopted it to help keep it clean.

Keep Pennsylvania Beautiful  
Adopted by  
Concerned Citizens



You can be part of an adoption team, too!

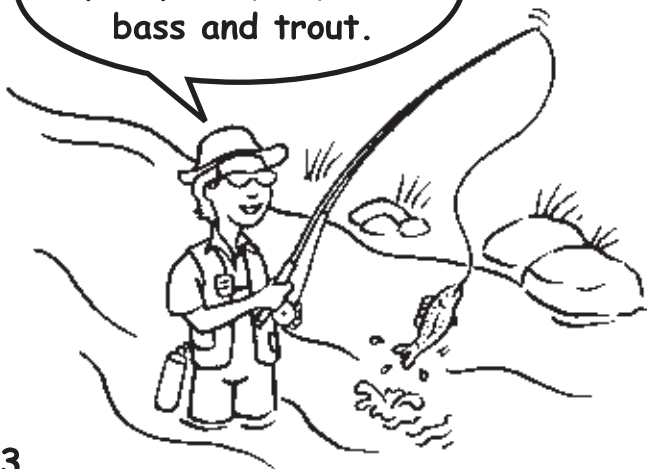


**THE CLARION RIVER** in northwestern Pennsylvania serves as a water trail connecting Ridgway to Clarion.



It winds through beautiful Cook Forest and Clear Creek State Parks.

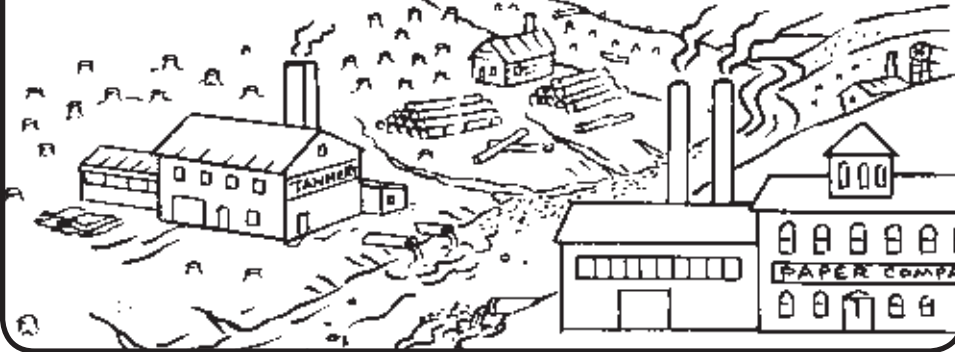
It's a great place to fish for smallmouth bass and trout.



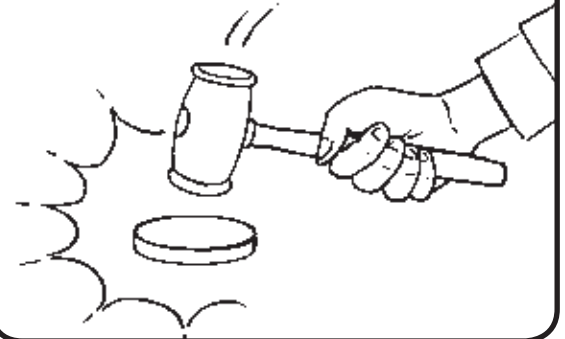
Some anglers leave behind tangled fishing lines, hooks, bobbers and bait containers. These can be harmful to animals.



However, in the early 20th Century the Clarion River ran dark and lifeless due to pollution from mine drainage, lumbering, tanneries and paper mills.



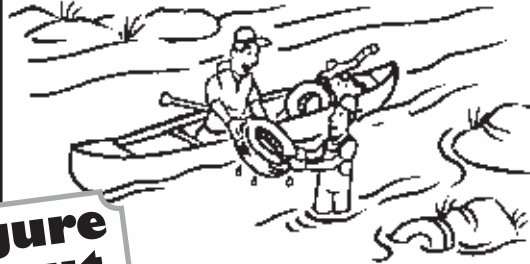
Because of this, people decided to pass laws and work together to clean up the river.



Volunteers worked nearly 2,000 hours over a two-year period and cleaned up more than 15 tons of trash from this area.



Some even used canoes to get trash out of the water.



**Figure it out**

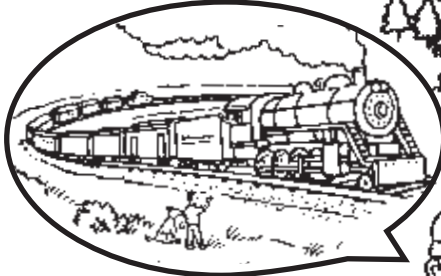
If each volunteer worked 4 hours, how many volunteers did it take to clean up the Clarion River?

Today, there are bald eagles nesting along the Clarion River!



**GREENWAY  
FUNCTION**

Serves as  
a habitat



**THE GREAT ALLEGHENY PASSAGE** is a scenic trail over 150 miles long. This **GREENWAY** can be used for bicycling, hiking, or cross-country skiing. The trail travels from the city of Pittsburgh to our nation's capital, Washington, DC, by connecting to the C&O Canal Towpath. It was developed by pulling up old, abandoned railroad tracks and replacing them with a crushed limestone surface.

**Greenways** that are hundreds of miles long are called **megagreenways**. Sometimes they connect different states.

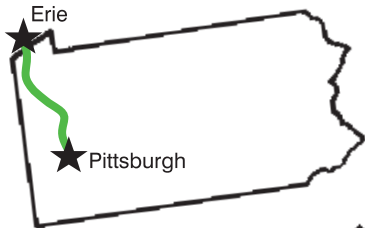


**THE GREAT ALLEGHENY PASSAGE** connects many towns and cities. The money spent by trail users and tourists in these "Trail Towns" helps sustain and grow their economies.

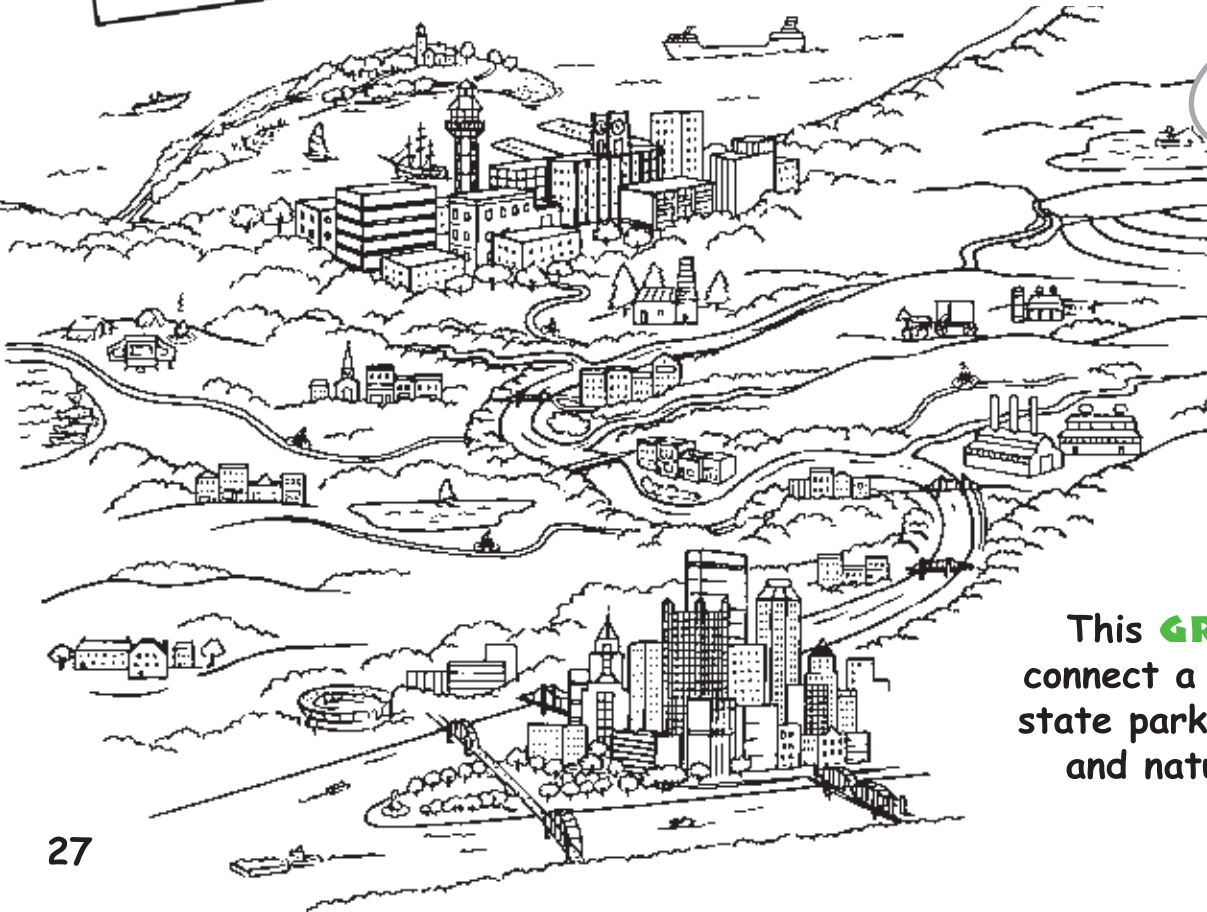


**GREENWAY  
FUNCTION**

Way of **travel** from  
place to place



**THE ERIE TO PITTSBURGH GREENWAY** will link up existing trails along the Allegheny River north into Venango County and onward to Lake Erie. It will connect the two cities of Erie to the north and Pittsburgh to the south.



**Did You Know?**



Lake Erie is the shallowist of all the Great Lakes with an average depth of only 62 feet.

Pittsburgh has more bridges than any other city in the world.

This **GREENWAY** will connect a variety of scenic state parks, heritage areas and natural resources.





Not only will it help the environment and provide recreational opportunities, it will also help the economies of the communities it passes through by building tourism like the **GREAT ALLEGHENY PASSAGE** is doing in its "Trail Towns".



Maine



Georgia

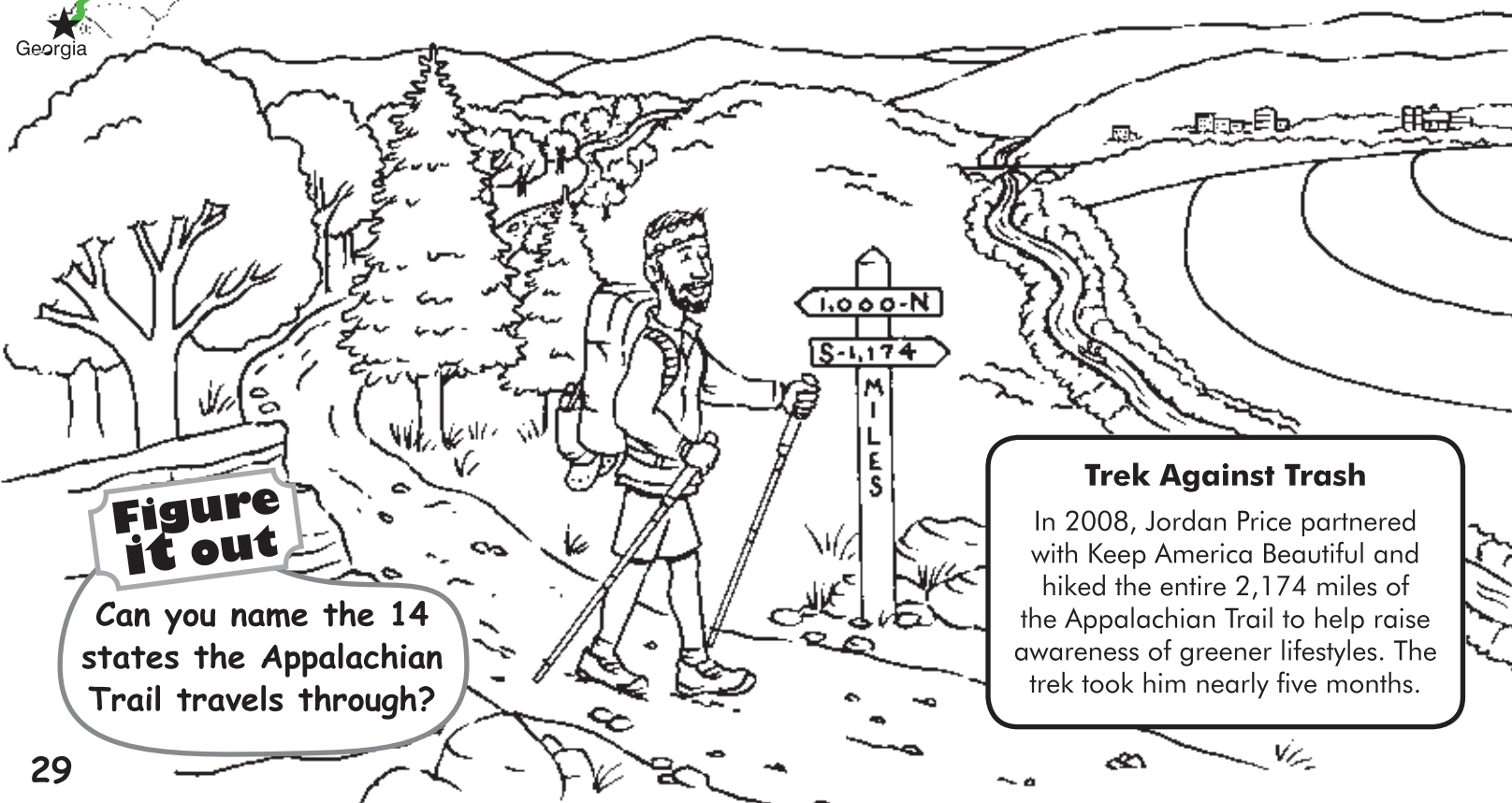
The **APPALACHIAN NATIONAL SCENIC HIKING TRAIL** is a **NATIONAL GREENWAY** that stretches 2,174 miles through 14 states from Maine to Georgia.

### Figure it out

Can you name the 14 states the Appalachian Trail travels through?

### Trek Against Trash

In 2008, Jordan Price partnered with Keep America Beautiful and hiked the entire 2,174 miles of the Appalachian Trail to help raise awareness of greener lifestyles. The trek took him nearly five months.



Now you know that a **GREENWAY** is a long, open space which is friendly to the environment. It is also a route that connects one place to another. As you have seen, **GREENWAYS** can be **TRAILS**, **WATERWAYS** or **OPEN SPACES**.



There are many more **GREENWAYS** throughout Pennsylvania and across the USA. Some are natural areas where people don't usually go.

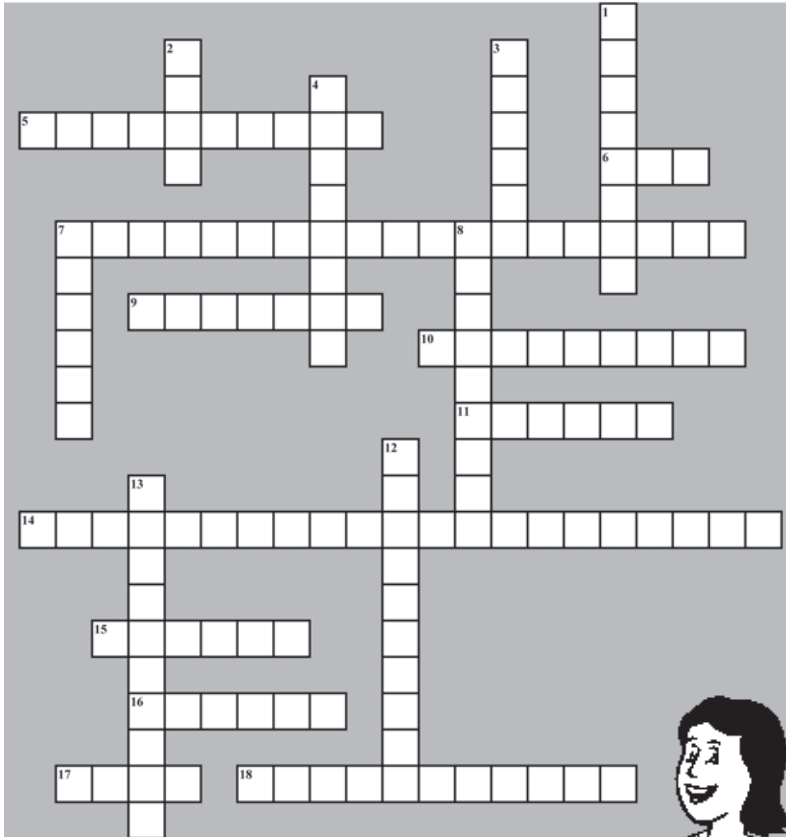


Remember that **GREENWAYS** help the environment when they function as a **HABITAT**, **BUFFER**, **FILTER**, **SOURCE**, **SINK** or way of **TRAVEL**...



...and that trash and litter impact how well a **GREENWAY** functions.

# Open Your Eyes to Litter in a **GREENWAY**

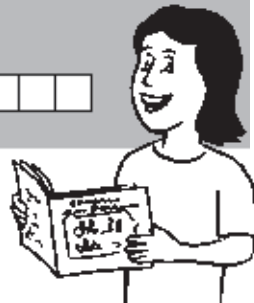


## Across

5. People who donate their time
6. Unit of weight, equal to 2,000 pounds
7. The first American public water supply (3 words)
9. Home for plants and animals
10. Area known as the Little Grand Canyon of Pennsylvania (2 words)
11. **Greenways** provide safe ways for animals and people to \_\_\_\_\_ from one place to another.
14. Trail that connects the city of Pittsburgh to Washington, DC (3 words)
15. Items not properly disposed
16. Helps control soil erosion
17. Unit of area equal to 43,560 square feet
18. What scenic hiking trail travels through fourteen states from Maine to Georgia?

## Down

1. A proven and long-term way to keep a **greenway** clean
2. Traps sediments and nutrients that would otherwise be carried away in surface and groundwater
3. **Greenways** are a \_\_\_\_\_ of water and seed dispersal
4. A long open space that is friendly to the environment and also serves as a route connecting one place to another
7. Helps prevent flooding and keeps the groundwater clean
8. A destination along a long-distance trail that encourages trail users to visit and welcomes them with warm hospitality (2 words)
12. Called the "Revolutionary River"
13. Capital of Pennsylvania



# Figure it out



Can You Answer These Questions?

- What Great Lake borders PA? \_\_\_\_\_
- What three rivers join in the city of Pittsburgh?
  1. \_\_\_\_\_
  2. \_\_\_\_\_
  3. \_\_\_\_\_
- The \_\_\_\_\_ River flows through Harrisburg.
- The \_\_\_\_\_ River forms the eastern border of PA.
- What states border PA?
  1. \_\_\_\_\_
  2. \_\_\_\_\_
  3. \_\_\_\_\_
  4. \_\_\_\_\_
  5. \_\_\_\_\_
  6. \_\_\_\_\_

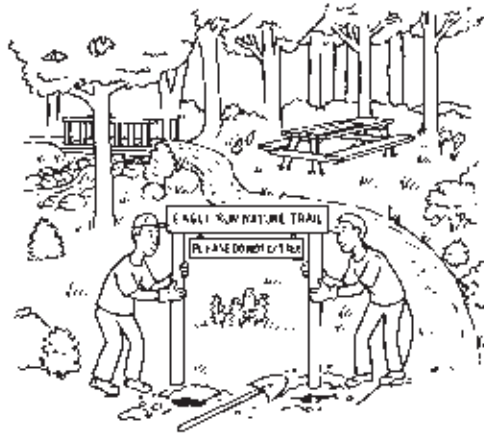
- Roadways with even numbers travel in what direction? \_\_\_\_\_
- Roadways with odd numbers travel in what direction? \_\_\_\_\_
- What roadway in Pennsylvania is the exception? \_\_\_\_\_
- What interstate highway would you use to travel from:
  - Pittsburgh to Harrisburg? \_\_\_\_\_
  - Erie to Pittsburgh? \_\_\_\_\_
  - Scranton to Harrisburg? \_\_\_\_\_
- What **GREENWAY** would you use to travel from:
  - Pittsburgh to Harrisburg? \_\_\_\_\_
  - Erie to Pittsburgh? \_\_\_\_\_
  - Scranton to Harrisburg? \_\_\_\_\_
- Name five **MEGAGREENWAYS** found in PA:
  1. \_\_\_\_\_
  2. \_\_\_\_\_
  3. \_\_\_\_\_
  4. \_\_\_\_\_
  5. \_\_\_\_\_

# Empowering Young People for Tomorrow

The Sue Wiseman Scholarship recognizes young people who have demonstrated outstanding commitment and dedication to the environment. The scholarship is named for Sue Wiseman whose commitment and dedication to a cleaner environment led to the founding of PA CleanWays in 1990, which is now Keep Pennsylvania Beautiful.



As part of her Girl Scout Gold Award project, Jennifer organized a clean-up of hundreds of bags of trash and nearly 200 tires in Olympia Park in the Mt. Washington neighborhood of Pittsburgh, PA. Jennifer also built an education station that details the dangers of littering.



As part of his Eagle Scout Project, William removed a dumpsite located along Hollow Creek in Washington County, PA. After cleaning up over 20 tons of trash and debris, 500 tires, and 10 tons of scrap metal, William built bridges, picnic areas, and informational signs about native wildlife, and the impacts of illegal dumping.



Megan, Co-Chairperson of the Junior Pennsylvania Lake Erie Watershed Association implemented the "Cigarette Butt Campaign" in Erie, PA. Two cleanups resulted in the collection of more than 12,800 cigarette butts. This program also raised local awareness about cigarette litter.



## Here's what **YOU** can do...

- Research **GREENWAYS** in your community
- Look for adoption programs in your area
- Build a model of a **GREENWAY**
- Create a habitat for birds in your backyard
- Volunteer with your school recycling program or help start one
- **LEAVE NO TRACE**

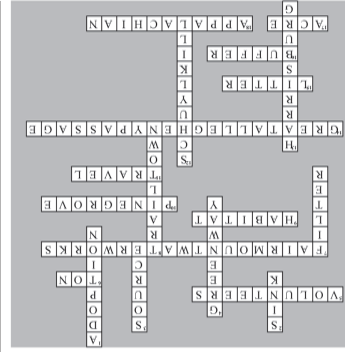
### This book addresses PA Department of Education Academic Standards for:

#### Environment and Ecology

- 4.2.4 Renewable and Nonrenewable Resources (A & D)
- 4.3.4 Environmental Health (A, B & C)
- 4.8.4 Humans and the Environment (A, B, C & D)
- 4.9.4 Environmental Laws and Regulations (A)

#### Geography

- 7.1.3 Basic Geography Literacy (A & B)
- 7.2.3 The Physical Characteristics of Places and Regions (A)
- 7.3.3 The Human Characteristics of Places and Regions (C)
- 7.4.3 The Interactions Between People and Places (B)



### Answer Key

**Page 15**  
 Uses for birch oil: flavoring, glue,  
 leather oil, cosmetics, soap, medicine

- PA Turnpike Route 476
- Route 76, Route 79, Route 81

**Page 16**  
 Nearly 18,000 pounds

**Page 22**

Cars in 244 acres = 48,800

Soccer fields in 244 acres = 122

Football fields in 244 acres - 183

**Page 24**

500 Volunteers

**Page 29**

Maine, New Hampshire, Vermont,  
 Massachusetts, Connecticut, New York,  
 New Jersey, Pennsylvania, Maryland,  
 West Virginia, Virginia, Tennessee,  
 North Carolina, Georgia

**Page 32**

- Lake Erie
- Ohio, Allegheny, Monongahela
- Susquehanna
- Delaware
- New York, Ohio, West Virginia,
- Maryland, Delaware,
- New Jersey
- East and West
- North and South



KEEP AMERICA BEAUTIFUL AFFILIATE

[www.keppabeautiful.org](http://www.keppabeautiful.org)



**pennsylvania**

DEPARTMENT OF CONSERVATION  
AND NATURAL RESOURCES

[www.dcnr.pa.gov](http://www.dcnr.pa.gov)

**Special Thanks to:**

Keep Pennsylvania Beautiful staff for their time, talent, and effort

Becky Richardson, Education Consultant

Illustration, Design, and Layout: Mark Jackson

Keep Pennsylvania Beautiful is a nonprofit organization whose mission is empowering Pennsylvanians to keep our communities clean and beautiful. For more information call us toll free at 877-772-3673 or email us at [info@keppabeautiful.org](mailto:info@keppabeautiful.org)