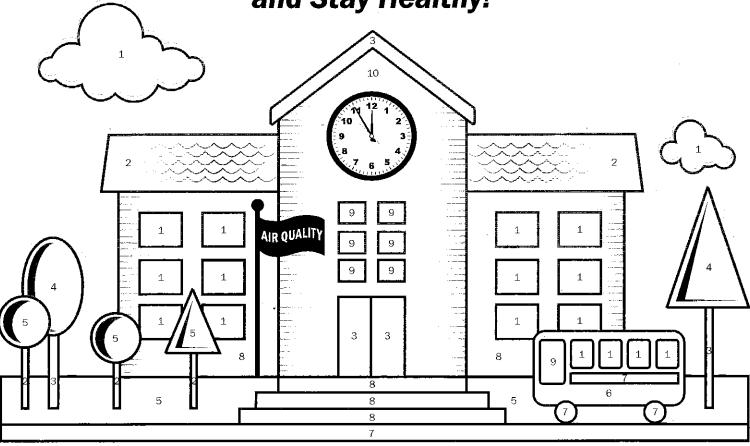
WHERE'S MIKE?

Help Your Friends Prevent Air Pollution and Stay Healthy!



Color by the numbers:

- 1: Light Blue
- 2: Light Brown
- 3: Dark Brown
- 4: Dark Green
- 5: Light Green
- 6: Orange
- 7: Black
- 8: Light Gray
- 9: Dark Blue
- 10: Dark Gray

This Workbook Belongs To:

This workbook is an activity book for 3-5 graders which meets the Common Core Standards for Health and the Environment.

WHAT IS AIR POLLUTION?

Air Pollution

Air pollution is made up of tiny particles or gases that can damage lungs or make it hard to breathe.

Asthma

A disease that causes the tubes that carry air into the lungs to feel tight. Asthma makes breathing hard and can cause wheezing and coughing.

You had an asthma attack. **Air pollution** levels are high today. Air pollution can make it hard for people with **asthma** to breathe.

Mike's at the nurse's office. He is having trouble breathing because of his **asthma**.



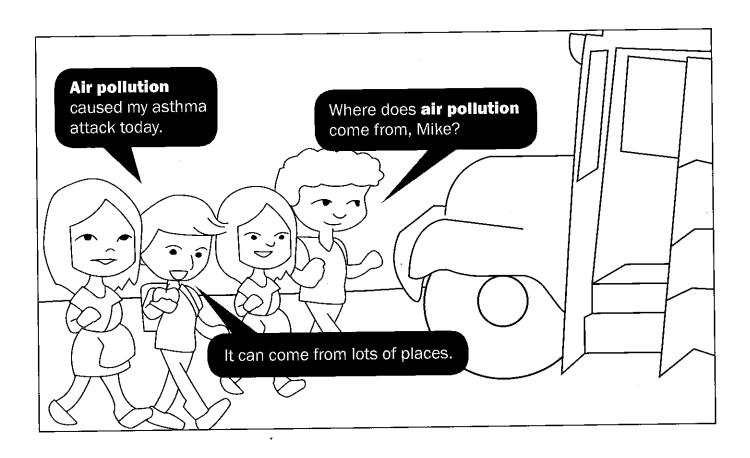


Another **Air Quality Action Day?** I don't like missing out on playing outside with my friends.

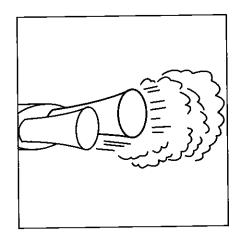
Air Quality Action Day

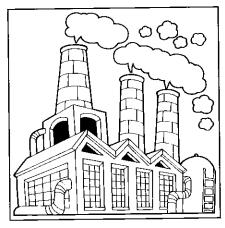
An Air Quality Action Day is declared when air becomes unhealthy to breathe for children, older adults, and people with breathing problems like asthma.

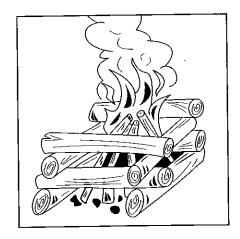
WHERE DOES AIR POLLUTION COME FROM?



Sources of Air Pollution:







Try to help Mike and his friends identify the different sources of air pollution by solving the math problem and then put the letter in the blanks below.

9+8= ___ A

5×2= ___ G

8+8= ___ M

8×4= ____

5+10= ___ C

9×3= ____ F

25-7= ____

11-9= ___ l

24÷3= ___ D

16-5= ___ I

6+3= ___ 0

4x7= ___ Y

3×4= ___ E

5×4= ___ K

10÷2= ___ R

17-4= F

2x7= L

10-7= ___ S

A 11 15 20 11 18 10 12 14 12 15 32 5 11 32 16 17

D 3 16 9 20 12

Can you match the letter of the sources of pollution above to a solution listed below? Place the letter (A, B, C, or D) of the source of pollution next to the **solution**.

Reduce, reuse, and recycle. By using less products and materials, factories use less energy and pollute less.

Don't burn trash or leaves in your yard. Burning trash and leaves gives off smoke that is unhealthy to breathe.

______ Bike, walk, or take public transportation.

_____ Save energy at home. Power plants that make electricity are a big source of air pollution.

Solution A way to solve a problem

<u>rainten en en en la companya de la </u>

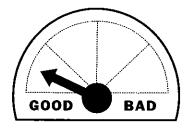
Find the sources of air pollution... Factory smoke stacks Cars with only one passenger ☐ Smoke from home chimneys Burning yard waste Find the solutions to air pollution... Taking the bus to school Using a push mower Planting a tree Riding a bike Tuning up a car at Bob's Tune-Up Shop Recycling bottles and cans Going for a walk Taking the City Shuttle Hanging laundry to dry Riding a skateboard Using solar panels Walking to the grocery store Rollerskating Carpooling



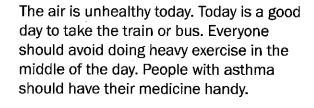
and color the SOLUTIONS!



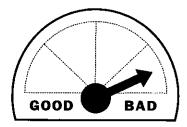
Color the AQI dashboards and draw a line from the AQI to the class's activities for the day.







Air quality is OK today. Go outside and play.



Air quality is very good today. Get some exercise!



The air is unhealthy for people with breathing problems like asthma. Children should not play games that require a lot of running or heavy breathing and should take plenty of breaks.



BE AN AIR QUALITY INVESTIGATOR!

If we are going to fix some of the problems that pollute our air, we will need many smart people like you to work on the problem.

Directions:

First, go to www.AirQualityPartnership.org and record the AQI each day. Then record the temperature. Finally, observe and record the weather conditions for the day (rainy, cloudy or sunny, etc.).

Month:

Ī	Sun.	Mon.	Tues.	Wed.	Thu.	Fri.	Sat.
AQl: Temp: Weather:	Example: Yellow 85 F Sunny, Calm Winds						
AQI: Temp: Weather:			·				
AQI: Temp: Weather:							
AQI: Temp: Weather:							

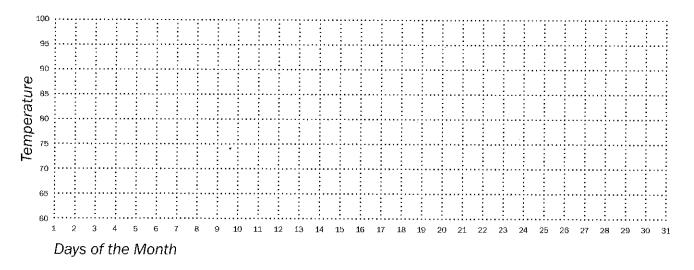
be happening to make air pollution worse?	ei illay
	,

Use your records to create a bar graph to show how many of each kind of day there were in the month.

5				:
10				
15				
20				
25				
30			:	
	20 15 10	20 15 10	20 15 10	20 15 10

Air Quality Index

Use your records to create a line graph to show what the high temperature was each day of the month.



Conclusion: Overall, how was the air quality overall this month? What kind of days had the worst air quality?

Weather can help make air quality better or worse. Rainy and windy days can blow air pollution away. Sunny and warm days, with no wind, can help some kinds of air pollution to form.

For more information on air quality in your region and to download more workbooks, activities, or teacher resources, please visit: www.AirQualityPartnership.org

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Commission, and project partners.







