







Keep Austin Beautiful can help you earn an "I Keep Austin Beautiful" patch!

CLEAN up a park, school, creek or neighborhood in your area and we will provide you with a FREE Cleanup Kit including:

Trash Bags Gloves Litter Pick-up Tools Poison Ivy Block A First Aid Kit & more!



Beautifying your neighborhood just got easier with these KAB resources:

Over 300 tools available for checkout

Seed donations

Soil and mulch provided for gardening projects

Assistance in identifying and coordinating a project

Contact KAB to schedule a presentation for your group.

## Keep Austin Beautiful

- 512.391.0617
- www.keepaustinbeautiful.org



CLEAN, BEAUTIFY, and EDUCATE to earn an "I Keep Austin Beautiful" patch! Patch Pals invites Scouts, other community youth groups, and you to take action to Keep Austin Beautiful.

**IT'S EASY**.... Complete one activity from each section below and submit a Patch Pals Application to receive your "I Keep Austin Beautiful" patch.

#### CLEAN

Participate in a KAB cleanup Organize your own cleanup Adopt-a-Creek through KAB Think of ways to reduce waste

#### **BEAUTIFY**

Remove graffiti
Plant a flower bed, tree, or wildflower meadow
Participate in a trail maintenance day
Design and paint a mural
Find your own way to make Austin beautiful

#### **EDUCATE**

Mark storm drains
Read a book about the environment
Schedule a KAB presentation for your group
Share your knowledge with others
COMPLETE THE PATCH PALS ACTIVITY BOOKLET!!!



#### FLAG IT AND BAG IT

While most waste ends up in trash bins and then landfills, litter is carelessly dropped or left on the ground in public places.

Litter is not only ugly but also dangerous.

#### Why is litter bad?

It blocks ditches which can lead to flooding. Toxic chemicals from litter pollute air and water. It's poisonous to animals.

Animals get tangled in litter.

The US spends \$37 million a year to clean up litter. **How would you spend \$37 million?** 

	_
List four reusable items and how you can re-use them:	



Son

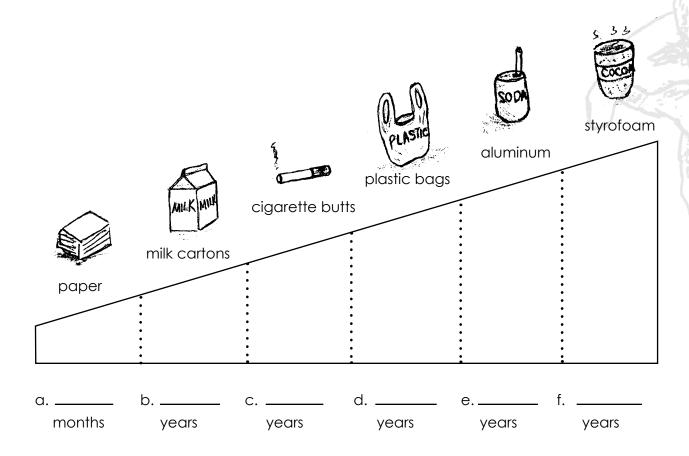




**REDUCE LITTER.** Pick up at least one piece of trash a day. Participate in a KAB trash cleanup.

## LITTER LIFELINE

How long do you think it takes for each of these common litter items to decompose?\*



<sup>\*</sup>Decompose: the breaking down of materials to become part of the soil.



## **CLEAN THE SCENE**

Gear up with gloves and a garbage bag and scout your neighborhood to see what kinds of litter you find; keep a tally below. Recycle or throw away what you find.

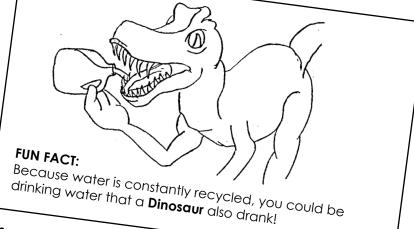
TYPE:	NUMBER FOUND:		
PLASTIC *		-	
GLASS *			
CLOTH		ISODAI	
PAPER *		[ ]	
FOOD			
METAL *		•	P
STYROFOAM			
OTHER			
	* Can be recycled		
Trash has a story who left it there?	What does the litter you f	ound tell you about th	e people
			18002
			200

## W'ATER DA WORDS?

#### Unscamble the bolded letters

1. All living things need <b>TAWER</b> to live.
2. All the earth's water moves through the <b>ODHYR – ECLYC</b> .
3. <b>GDRIKNIN</b> water comes from lakes, rivers, and <b>RNDGOU</b> water.
4. Less than 1% of all water on the earth is <b>SEFRH.</b>
5. One toilet <b>HULSF</b> uses 2–7 gallons of water.
6. A 5-minute <b>ERHSWO</b> uses 15–25 gallons of water.
7. Take the Patch Challenge below to help <b>ECOSNVRE</b> water.
Unscramble the circled letters to answer the question below.
What is the source of Austin's drinking water?
SAVE WATER. Turn off the faucet when brushing your teeth. Take a shorter shower. Don't flush trash down the toilet – it is not a trashcan.

# POLLUTION SOLUTIONS



#### **WORD MATCH**

Draw a line to the correct definition

**A** An underground layer of rock that stores water WATERSHED 1 from rain and streams. 2 **AQUIFER** An indicator of good water quality that keeps clean water healthy. STORM DRAIN **C** Rainwater flowing over the land that collects pollutants. DRAGONFLY The area of land that sheds water to a creek. lake, or aquifer. RUNOFF Roadside grates designed to drain storm water from roofs, roads, and parking lots.

List four ways you can protect your watershed and keep local creeks clean.

1	
2	
3	
4	





## CREEK-A-BOO

Take a sneak peek at a local creek.

NAME OF CREEK		_
DATE		
CLARITY    crystal clear   cloudy like lemonade   looks like tea   as dark as rootbeer  WATER FLOW   what water?   totally a trickle   steady on the move   catch me if you can	WATER LIFE    fish   turtles   algae   bugs   plants   other     Summer breeze   what smell?   sweaty socks   rotten eggs	
□ picture perfect □ time to clean □ looks like a landfill  CREEK NOTES:	FINAL QUALITY RATING  give me a drink  l'd swim in there  l've seen cleaner  grime central	
		<u> </u>

Keep your local creek clean. Pick up after your pet.



#### **BLOOMING WITH CREATIVITY**

Texas has over **5,000** native species of wildflowers!

Watch for wildflowers blooming from March to May at one of these sites:

Lady Bird Johnson Wildflower Center Zilker Botanical Garden Along a Texas highway www.lone-star.net/wildflowers/flowers.htm

What is your	favorite	wildflower	and	why?
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Wildflower names often describe how a wildflower looks.

Invent your own wildflower.

Draw what it would look like.

What would you call it?

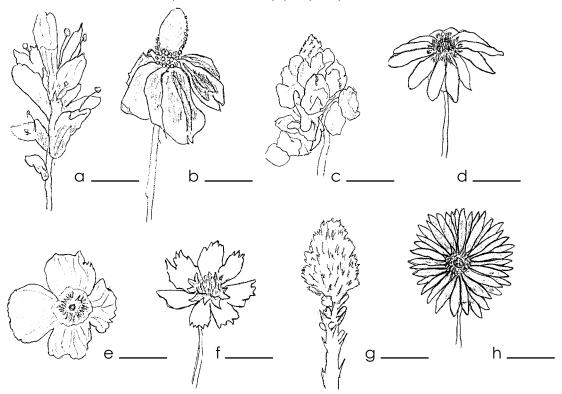


**GROW GREEN.** Green your backyard or neighborhood by planting a native plant species or wildflowers.

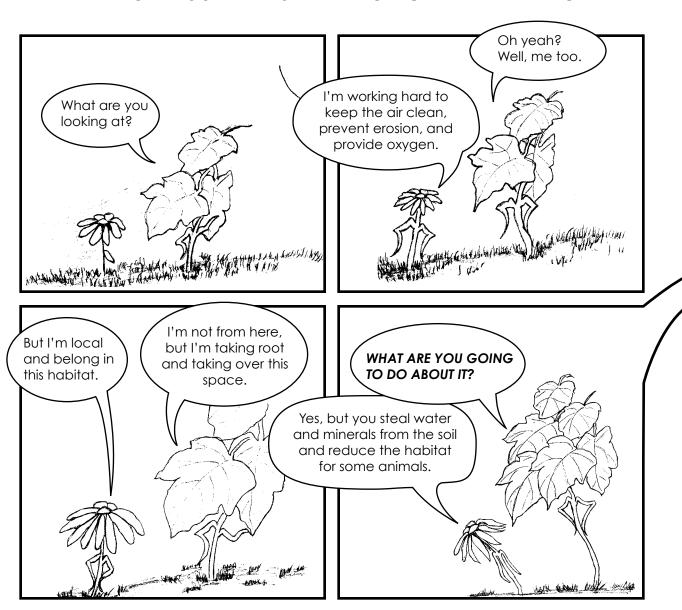
#### WHICH WILDFLOWER?

#### Match the wildflower to the correct description.

- 1 **PINK EVENING PRIMROSE** Four velvety pink petals with a yellow eye in the middle.
- 2 BLUEBONNET The state flower of Texas; filled with layers of blue petals pointing up.
- 3 MEXICAN HAT Looks like a hat with a pointy tip.
- 4 INDIAN PAINTBRUSH Orange tips of a paintbrush grouped together.
- 5 INDIAN BLANKET Orange petals with a touch of yellow on the tips and jagged edges.
- 6 **BLACK-EYED SUSAN** A miniature version of a sunflower.
- 7 **COREOPSIS** A spinning pinwheel of yellow petals.
- 8 GAYFEATHERS Groups of feathery purple petals that look like a rabbit's tail.

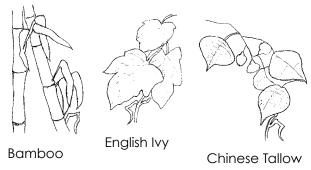


## NATIVE FLORA SURVIVES AN EXOTIC PLANT ATTACK



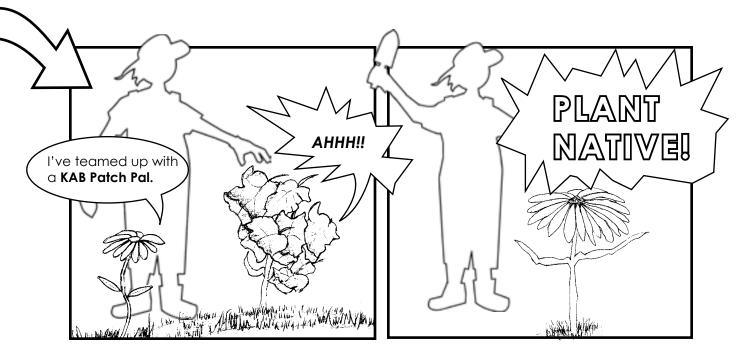


**WANTED!** Invasive plants for attacking Austin land. Reward for spotting.





Draw a Wanted poster for one of the invasive plants above.



#### TREES MATTER

Complete the crossword puzzle to discover the importance of trees.



#### **WORD BANK**

Energy Tree Shade Flooding Shelter Lumber Plants Oxygen Erosion

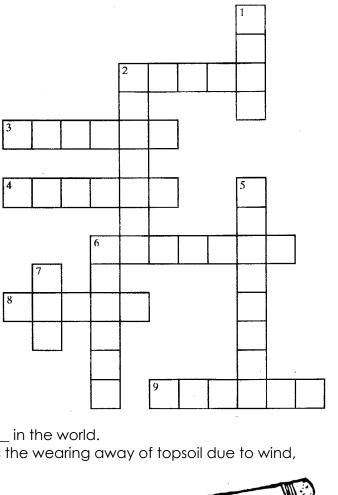
Paper Sap

#### **ACROSS**

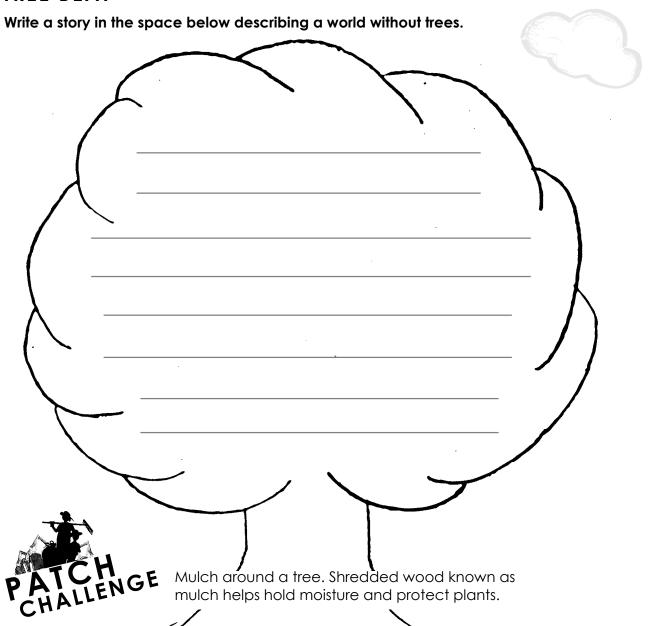
- **2** Protection from the sun.
- 3 Wood used to build homes.
- **4** Trees are the largest and tallest in the world.
- 6 Trees protect against \_\_\_\_\_, which is the wearing away of topsoil due to wind, water, and storms.
- 8 A writing material made from trees.
- **9** Trees release this gas and that people breathe.

## DOWN

- A plant with leaves, roots, and a single, woody trunk.
- 2 Shielding for humans and animals against wind, rain, and other types of weather.
- **5** Trees prevent during heavy rainfall.
- **6** Wood can be used as a source of to heat homes.
- Maple syrup comes from in a tree trunk.



## TREE BEAT



#### MAKING YOUR MARK

Murals can transform Graffiti into Art.

## DRAW YOUR MURAL

GRAFFITI IS:

a. costly to remove

b. ugly

c. illegal

d. all of the above



Where would your mural go?

Who would you invite to paint your mural?

What story does your mural tell?



## **FUELING THE FUTURE**

K V G V R Y K W D K A B W G E Z W U J H D C H P G J R S O L A R P O W E R S E M J SYNXTBWTKVNNUF ZIPAG BGOVAZMETEDJRSNH Ε S YRUMWLWRRNDT D D F Μ MEYONBCZPIRSIYY Ε G KNRDESBIOZOAOAGC Υ M E O N Q X M A L G N P G Y P O ΗЕ G D C F G A K O R P L N Q K S N V L K ONUPAIBNGROLVZRS W В IWLGZSIJINPRZIE C Ε GRNLTMEXICARHA CMDLET DUGRYURIHV ιŢ AEJPBT LNNOBEULBEAX SYXDC IARGLWY Z D G 0 N V ELAYERZ GWUGOZON D ΙC  ${
m T}$ RLROJMF Ε В Η DWYJR Ζ PGJCAOAMFHZJI

Solar Power Pollution Wind Energy Electricity Smog Ozone Layer Water Air Conserve







**SAVE ENERGY.** Turn off lights when you leave a room.

#### RECYCLE RIGHT

Want to reduce pollution and trash while protecting the earth? Recycle!

#### Fast facts:

Making cans out of recycled aluminum produces 95% less pollution than making them from scratch.

Save an acre of forest by recycling your newspaper for a year and a half.

Glass never wears out — it can be recycled forever.

#### WHAT GOES WHERE?

Draw a line from each item to its proper container

**Plastic bags** 

Wet paper

Newspaper

Catalogs

Soda cans

Tin cans

Glass bottles

#1 Plastic bottles\*

#2 Plastic bottles\*

Cardboard

Loose-leaf paper

Lids



**RECYCLE BIN** 



TRASH CAN

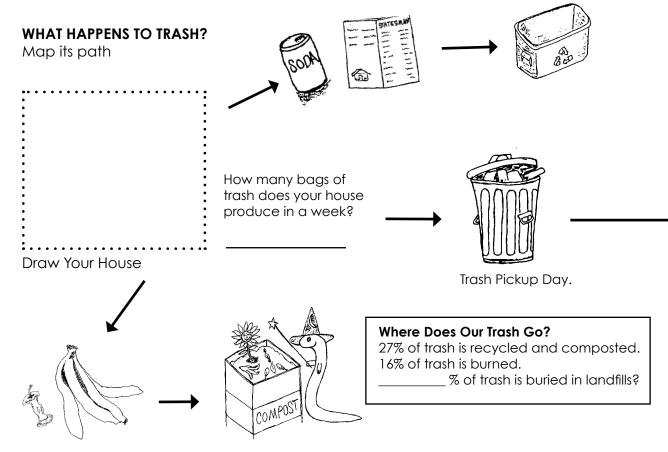


\*Look for a triangle with a number on the bottom of plastic bottles to determine if the plastic can be recycled

**RECYCLE RIGHT!** Visit http://austinrecycles.com to print Austin recycling guidelines and post them near your recycling bin.

#### TRASH ADDS UP

The average American throws away **3.5 POUNDS OF TRASH A DAY**. Every year we fill enough garbage trucks to form a line that would stretch from the earth, **HALFWAY TO THE MOON**. That's a lot of trash!

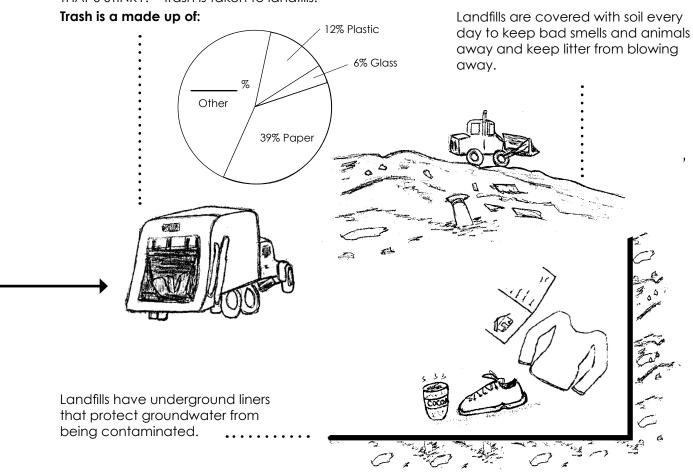


Did you know that food such as banana peels and coffee grounds can also be recycled?

This is called **COMPOSTING**.

**COMPOST** is a gardening soil made from decomposed plant material.

#### THAT'S STINKY! - Trash is taken to landfills.

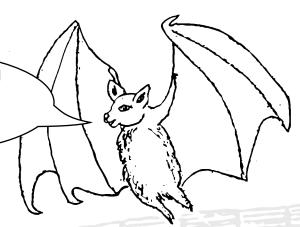




Track how much trash you make in a day and try to cut it in half for a week.

#### BATS WHAT IT'S ALL ABOUT

Hi Kids! I'm a bat, and I'm here to clear up a few myths about me and my bat friends.



#### MYTH: Bats are dirty and carry rabies.

NO! Very few people die from rabies from bats each year. We are very clean and groom ourselves, but remember, we are wild animals, so give us our space.

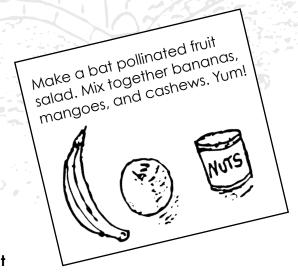
#### MYTH: Bats are worthless animals.

NO! We help control the number of flying insects. A little brown bat like me can catch and eat up to 300 bugs in fifteen minutes. Do you like fruits? You can thank me because I pollinate plants that provide food for you.

It was nice getting to know you. Stop by and see me one night under the Congress Avenue Bridge.

Do you love bats and want to find out more about them? visit www.batcon.org to Adopt-a-Bat!

## How many insects could I catch and eat in an hour?

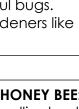


#### THE BUZZ ON BENEFICIAL BUGS

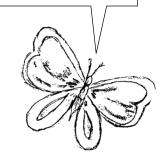
**NOT ALL BUGS ARE BAD!** Good bugs are nature's way of getting rid of garden pests.

**WASP:** Even though my sting is painful, I eat caterpillars and other harmful bugs. Farmers and gardeners like me too.

**BUTTERFLY:** I have colorful wings and pollinating powers. Oh, and did I mention that I started out as a furry caterpillar?



**HONEY BEE:** Ain't life sweet? I pollinate plants and provide you with a sweet, sticky food and wax to make candles.



**SPIDER:** W-w-watch out for my webs! These silky traps catch bugs, which are delicious for me to wrap up and eat.

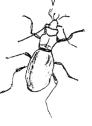
**LADY BUG:** Hi, I like to eat soft-bodied insects, and I help keep pests away for farmers and gardeners. Also, I am a bright color with dark spots.



GROUND BEETLE: Psst! I'm here under this rock because I don't like to go out into the sun. I do like to gobble up slugs and snails, and I have a hard, black shell.



**GREEN LACEWING:** Some people call me the "garbage disposal" bug because of my huge appetite. My favorite food is aphids, but I also eat other mealy bugs and larvae. Mm, I'm hungry already!



## PATCH PALS APPLICATION

Thank you for helping Keep Austin Beautiful.



Have you or your troop completed a CLEAN, BEAUTIFY, and EDUCATE activity to earn an "I Keep Austin Beautiful" patch?

If so, complete the form below and mail to: Keep Austin Beautiful, Attn: Patch Pals, 105 West Riverside, Suite 230, Austin, Texas, 78704.

Organization/Troop				
Contact/Leader's Printed Name				
Contact's Phone Number				
Contact's Email				
Mailing Address (where patches will be sent)				
Leader's Signature				
PARTICIPANTS' NAMES AND AGES:				
1	8 9			
3	10			
4	11			
5	12			
6	13			
7	14			
What did you do to Clean, Beautify, and Educate Austin?				
CLEAN:				
BEAUTIFY:				
EDUCATE:				

#### Patch Pals Activity Booklet Made Possible By:





Waste Management has a variety of resources to help you earn your KAB Patch:

- Tour the Waste Management landfill
- Plan a work-day at Waste Management's Wildlife Habitat Park
- Collect and recycle E-waste at Waste Mangement

To schedule a tour, contact 512.272.6254 or find out more about the above resources by visiting: http://austincommunitylandfill.wm.com/









Illustrations by: M.Webb, www.mwebbartist.tripod.com Additonal illustrations and design by: Jon Chonko Written by: Monica Lopez Magee and Francis Lee



Printed on recycled paper with soy-based inks

