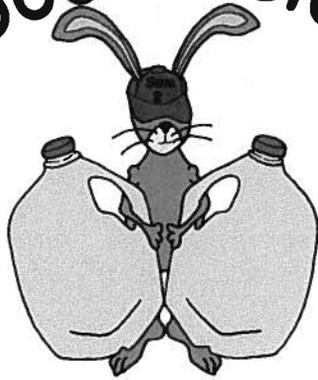


Albuquerque Bernalillo County
Water Utility Authority

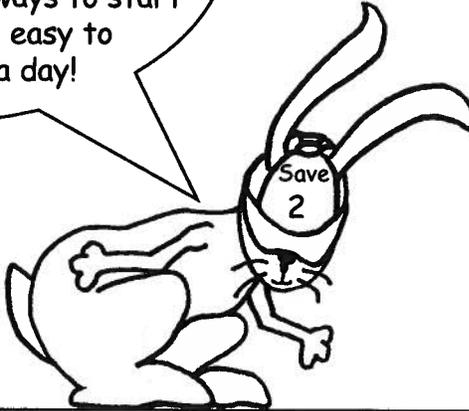
www.abcwua.org

This book belongs to:



Your Name

Hey kids!
Want to learn how you can
help us get On Track to save water?
Just stick with me, On Track Jack
Rabbit. Follow me through this alphabet
book and I'll show you ways to start
saving water. It's easy to
save 2 gallons a day!



Did you know?

In 1994 each person in Albuquerque used 252 gallons of water every day.

In 2008 each person in Albuquerque used 161 gallons of water every day.

In order to protect our aquifer, each person should be using 150 gallons of water (or less) each day by 2014.

If we all save 2 gallons of water every day, we will reach our water savings goal!

Want to learn more?

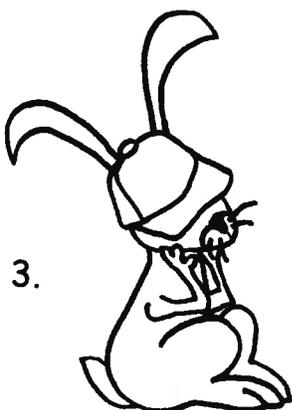
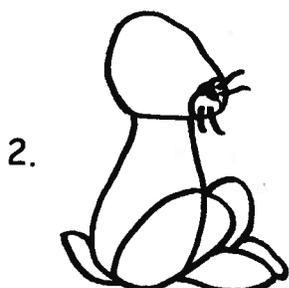
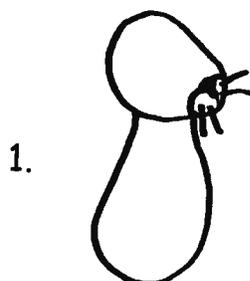
Visit www.abcwua.org and go to the education page for water games and activities.

Ask your teacher to call to set up a free in-class, hands-on activity.
Contact Katie Babuska at 505-975 - 0036 or katie@experientialee.com,
or Sharon Sivinski at 505-768-3245 or ssivinski@abcwua.org.

We hope you will enjoy learning how to
save water while you work along
with On-Track Jack's Alphabet book.

Remember to
"Save 2, it's up to you!"

Want to draw On-Track Jack? Follow these steps. As you work through the book, look for Jack on every page. When you find him, look carefully. What is Jack missing in your drawing? Can you add it?



4. Draw On-Track Jack here.

Did you know that Jack Rabbits can get all of the water they need from the plants they eat? They are well-adapted to live in a desert. We can adapt to live in the desert by saving water.

A is for Aquifer*,
water in the ground.

B is the color Blue
water all around.

*Aquifer is underground rock, sand, or gravel where all the spaces are filled with water.

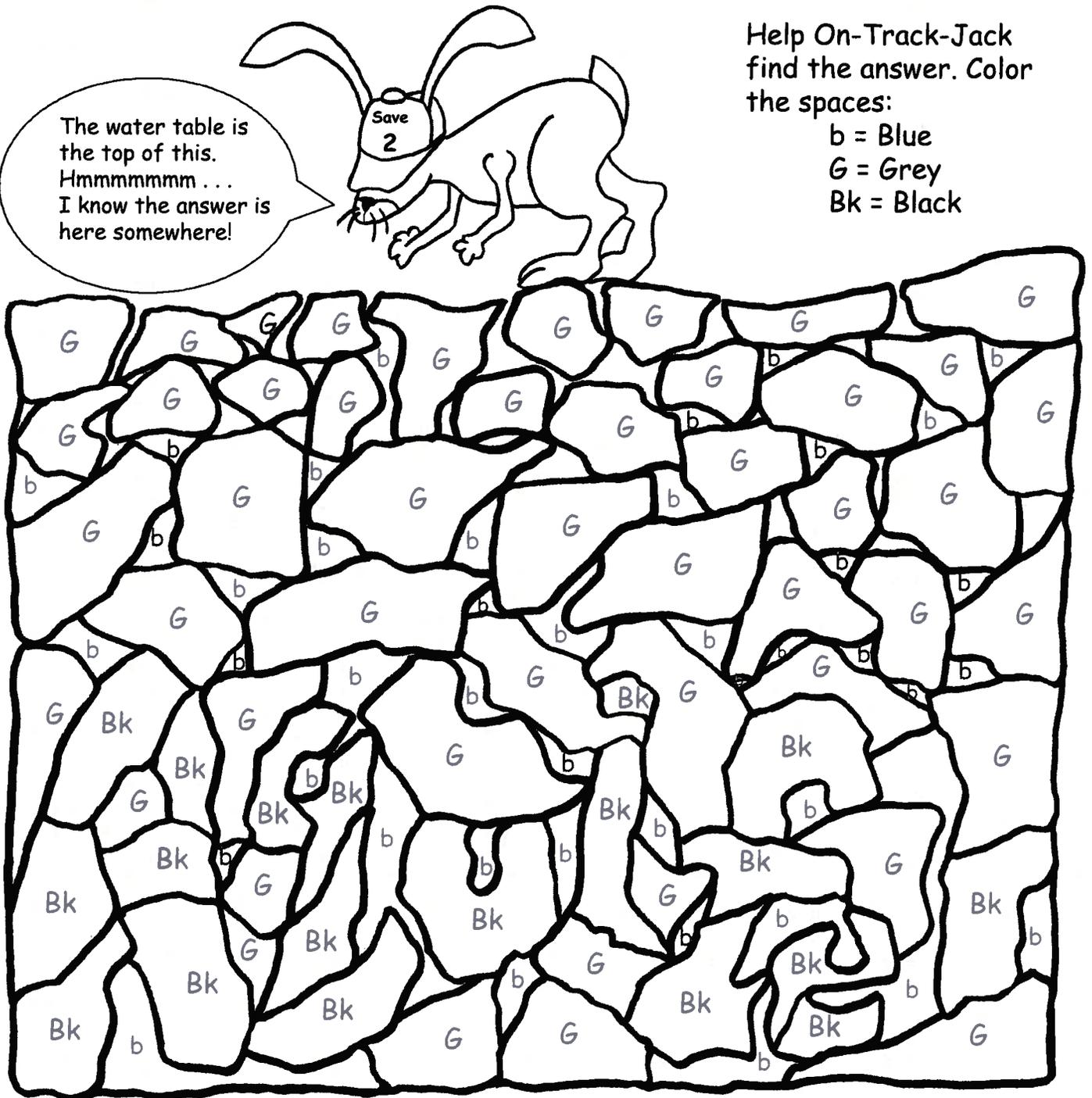
Help On-Track-Jack
find the answer. Color
the spaces:

b = Blue

G = Grey

Bk = Black

The water table is
the top of this.
HMMMMMM...
I know the answer is
here somewhere!



C is for Condensation,
vapor turns into . . .

Droplets on a grass stem.
That's what we call dew!



Why can I see my breath
in the winter?

Think: When can I see my breath? _____

Guess: What might be causing my breath to change then?

Experiment: Fill one glass with hot water from your faucet. Fill another glass with ice water. Let them sit for a few minutes. Blow on the glasses.



Observations: What did you observe on the glasses?

The hot glass? _____

The cold glass? _____

Conclusion: Was the water vapor in your breath all the time? _____

Circle the best answer: The cold glass made the water vapor in your breath (evaporate, condense, freeze solid).

E is Evaporate
when water becomes gas.

F is water Freezing
ice as slick as glass.

EVAPORATION (liquid to gas)

On a warm day, paint a square of sidewalk using water and a big paint brush. Try it at different times of the day. How long does it take for the sidewalk to return to its original shade of grey?

How long in the early morning? _____

How long in the aftertoon? _____

How long in the evening? _____



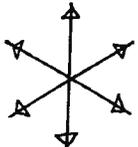
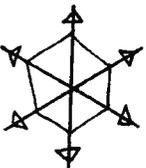
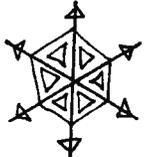
We don't want to water our yards when the water will evaporate quickly.

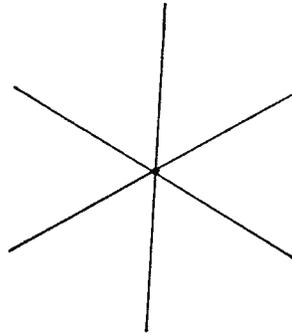
What time of day should we water our yards? _____

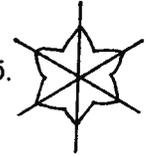
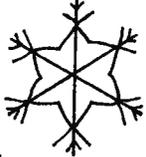


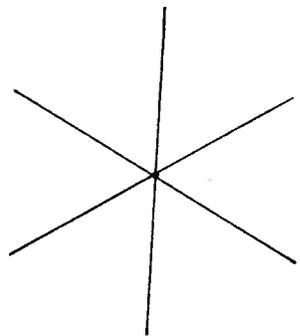
FREEZING (liquid to solid)

Precipitation is water falling as rain, hail, sleet, or snow. Snowflakes are formed when liquid water turns into a solid. Can you draw these snowflakes?

1.  2.  3. 

4. Draw your snowflake here. 

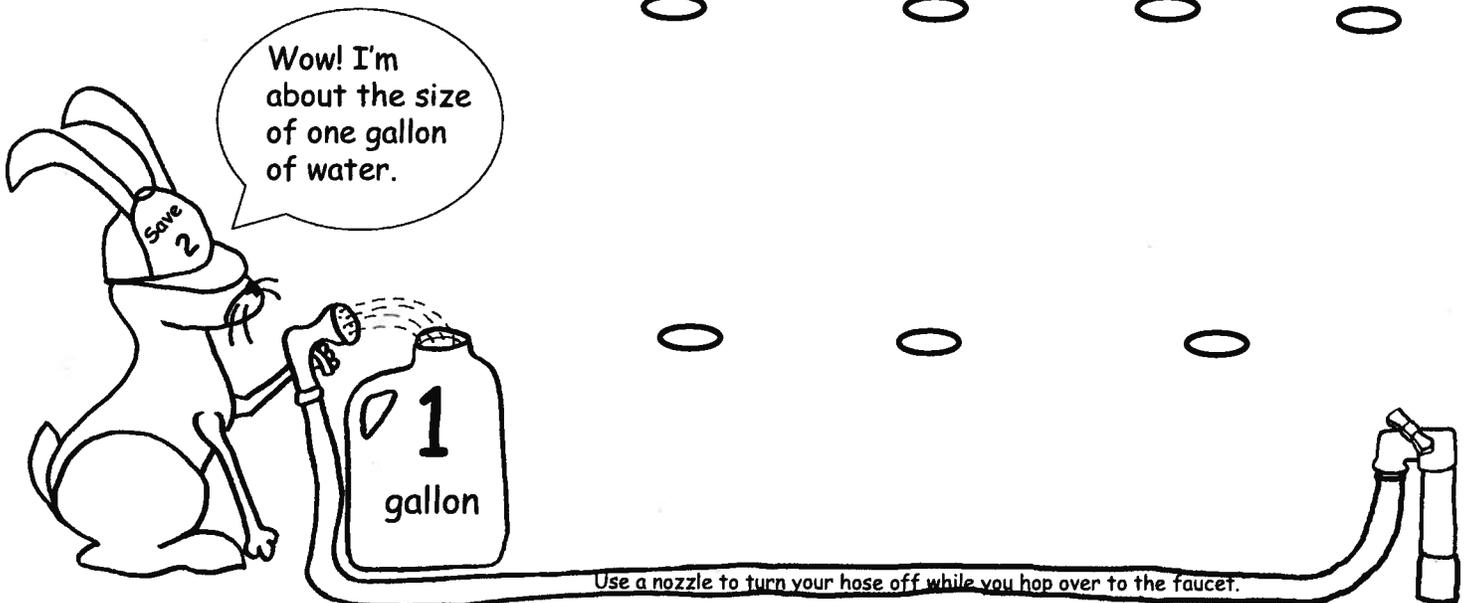
5.  6.  7. 

8. Draw your snowflake here. 

Gallons are for measuring
water that we get.

Hoses give us 20 gallons
every minute.

Use these openings to draw and number the other
19 gallons you get from your hose every minute.



Irrigate your yard in darkness
when there is no sun.

Jingle says how often to soak
1 - 2 - 3 - 2 - 1.

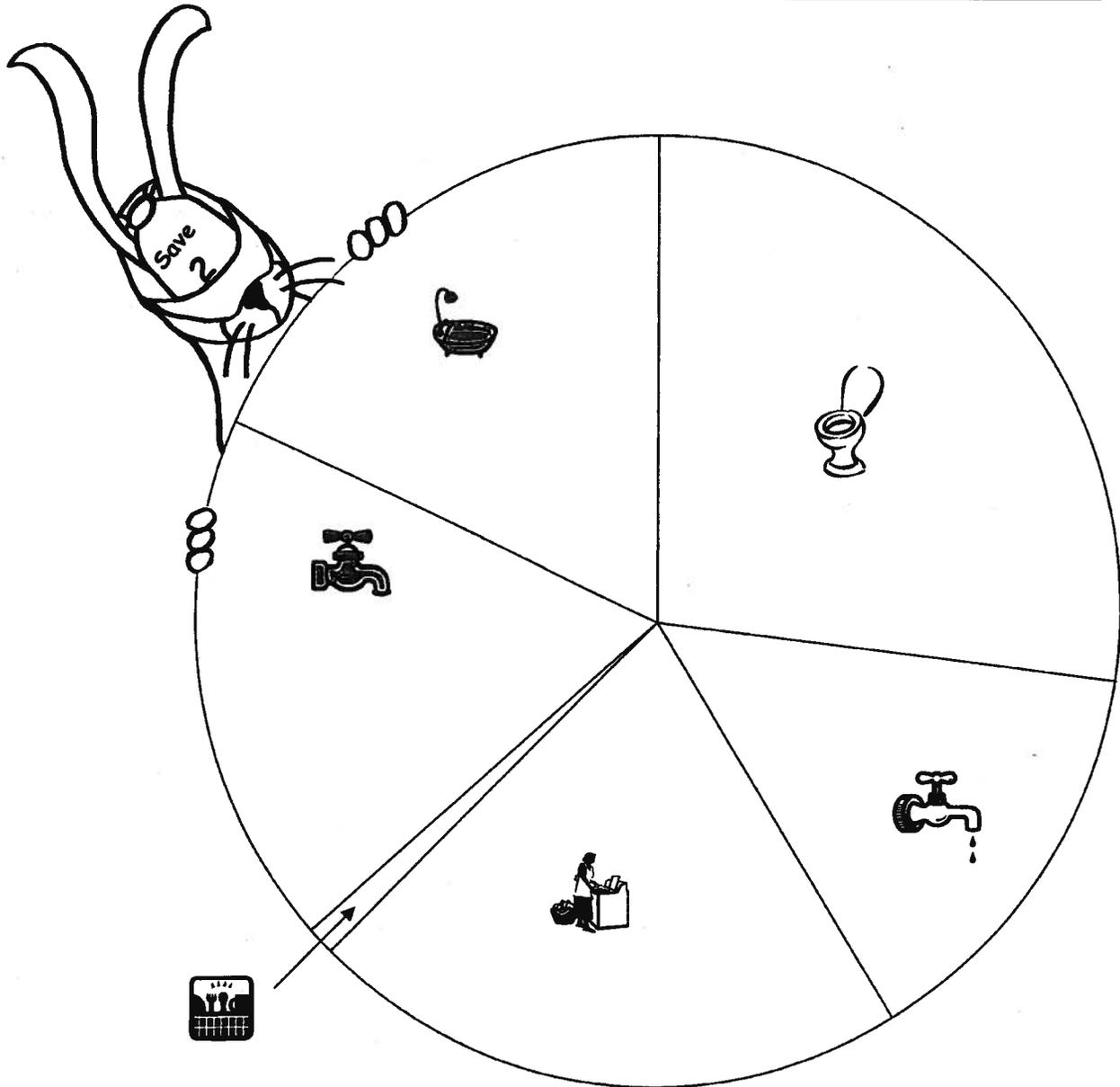


January Draw a snowflake.	Don't Water.
February Draw a Valentine heart.	Don't Water.
March Draw a four-leaf clover.	Water 1 time a week.
April Draw a rain shower.	Water 2 times a week.
May Draw a spring flower.	Water 2 times a week.
June Draw a summer pool.	Water 3 times a week.

July Draw a firework.	Water 3 times a week.
August Draw new school supplies.	Water 3 times a week.
September Draw some falling leaves.	Water 2 times a week.
October Draw a hot air balloon.	Water 2 times a week.
November Draw what you are thankful for.	Water 1 times a week.
December Draw a snowman.	Don't Water.

K eep your faucets fully closed,
turn them good and tight.

L eaks waste water all the time,
morning, noon, and night.

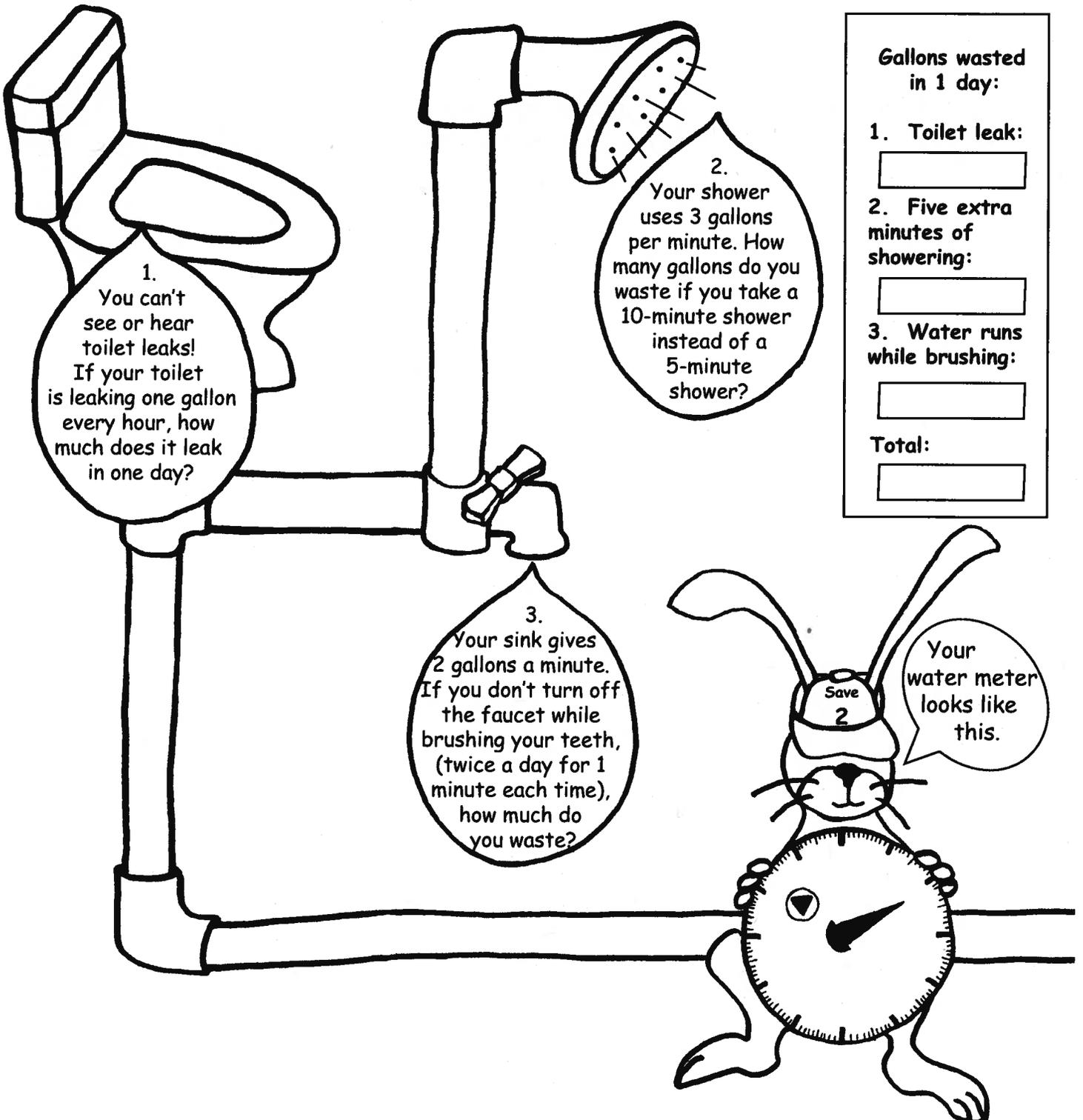


Color in the pie chart to show where we use our water.

Shower/bath 	Toilet 	Leak 	Bath 	Washer 	Dishes 	Faucet 
Blue	Yellow	Red	Green	Orange	White	Purple

M is for water Meter;
you won't be confused.

Numbers help us calculate
gallons you should use.



Gallons wasted
in 1 day:

1. Toilet leak:

2. Five extra
minutes of
showering:

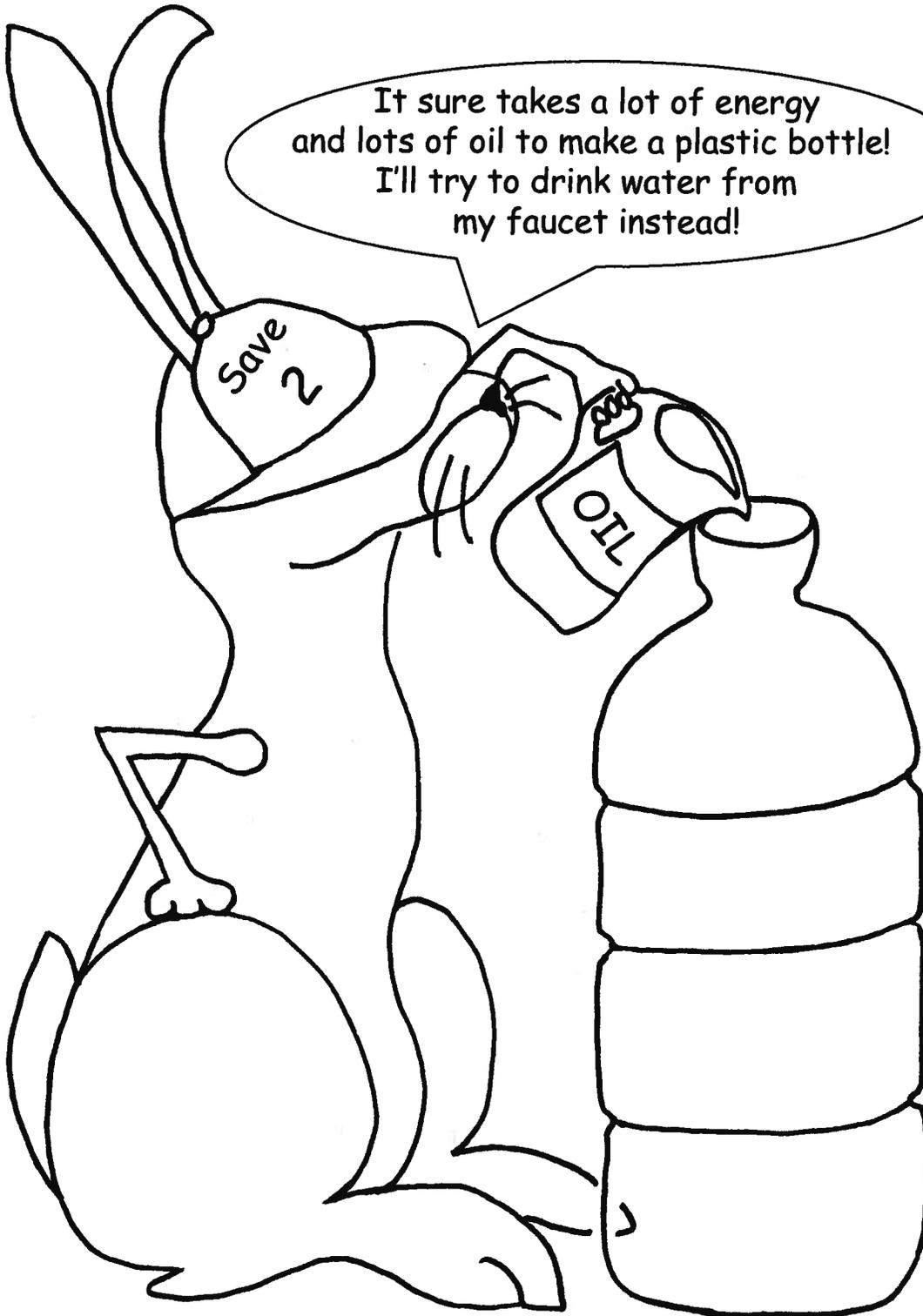
3. Water runs
while brushing:

Total:

On-Track-Jack says,
“Littering is wrong!”

Plastics end up in the river,
where they don’t belong.

It sure takes a lot of energy
and lots of oil to make a plastic bottle!
I'll try to drink water from
my faucet instead!

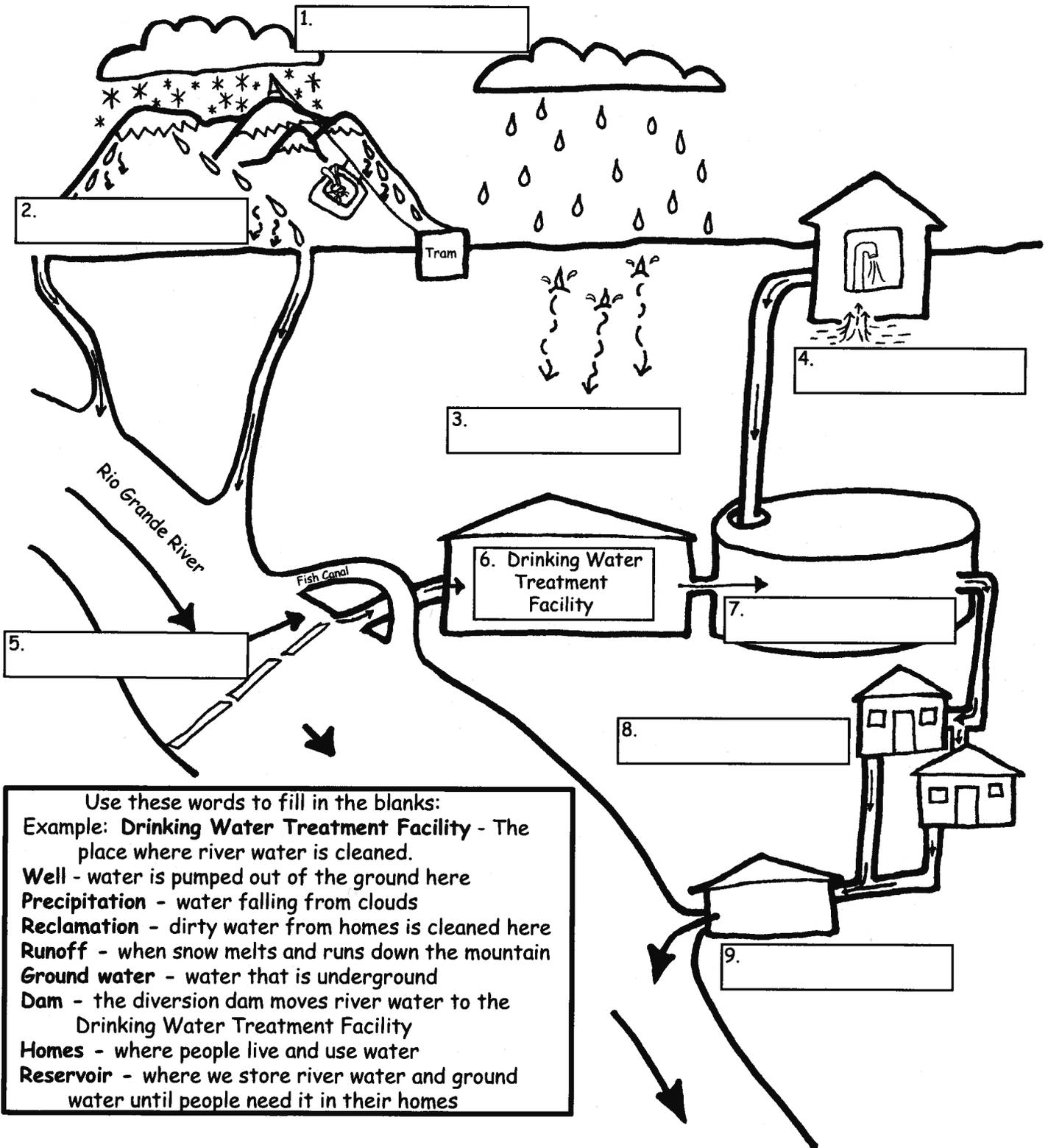


Color 1/4
of the
bottle
brown.

It takes
that much
oil to make
one plastic
water bottle.

Quench your thirst with water
from your kitchen sink.

River and ground water
cleaned and pure to drink.



S is for storm drains;
the rains flow down, away.

Thanks for keeping garbage out;
our river's clean that way.



Where should I put all my garbage? Draw lines to help me.

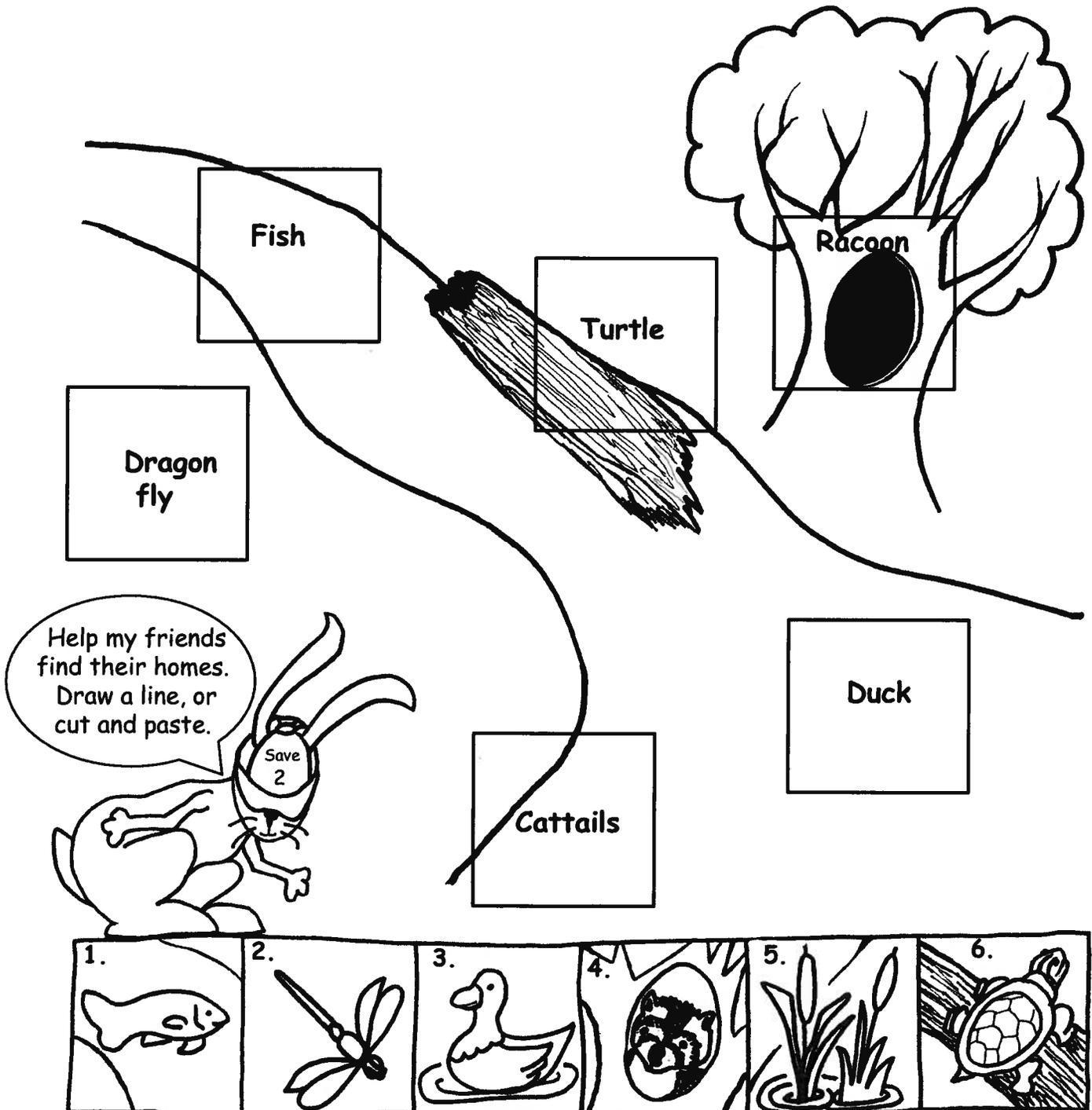


Make sure Jack doesn't put anything in the storm drains!!!

Underwater fish and insects
fit in this ecosystem.

Value river wildlife;
save some water for them.

Challenge: Draw more animals that live near the river.

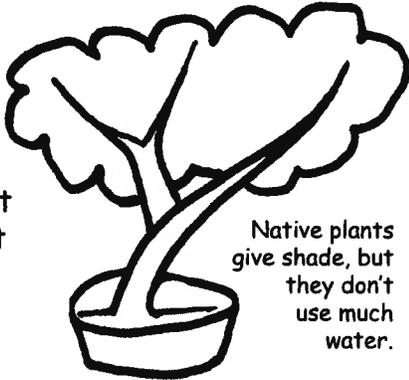


W is for water.
Don't waste this precious treasure.

Xeriscape with native plants.
They give us twice the pleasure.

Start

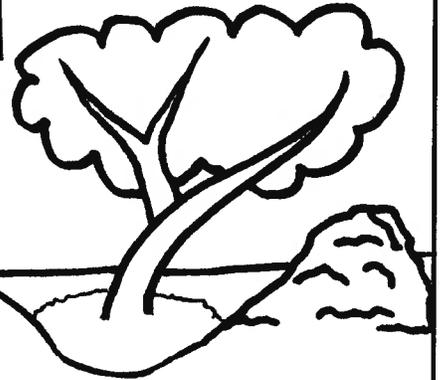
Choose a plant like this desert willow that loves our dry, hot climate.



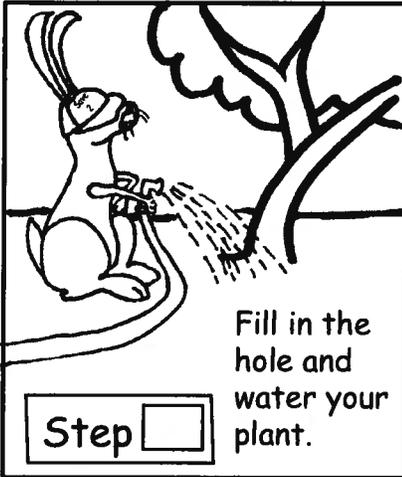
Native plants give shade, but they don't use much water.

Step

Put your plant in the hole you dug.

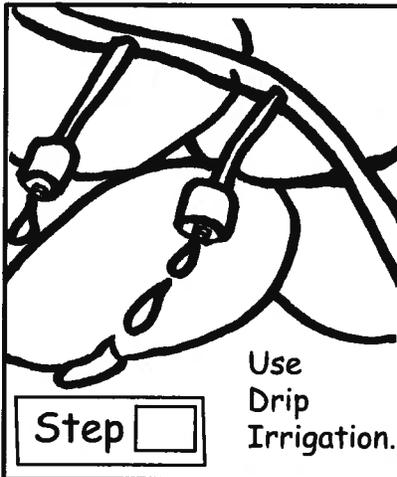


Number these panels 1 - 5 in the correct order to help On-Track Jack Xeriscape his yard.



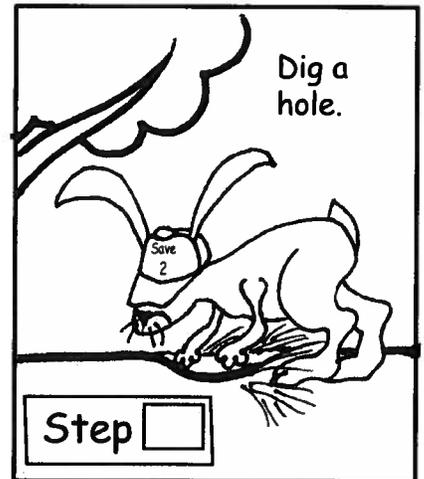
Fill in the hole and water your plant.

Step



Use Drip Irrigation.

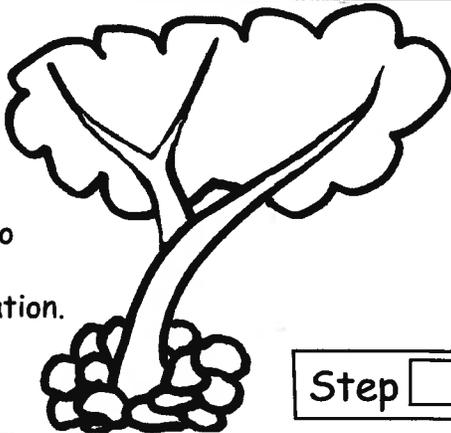
Step



Dig a hole.

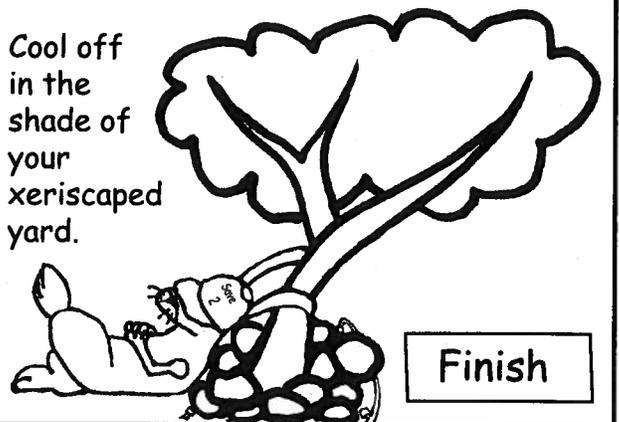
Step

Use rocks or bark for mulch to stop evaporation.



Step

Cool off in the shade of your xeriscaped yard.



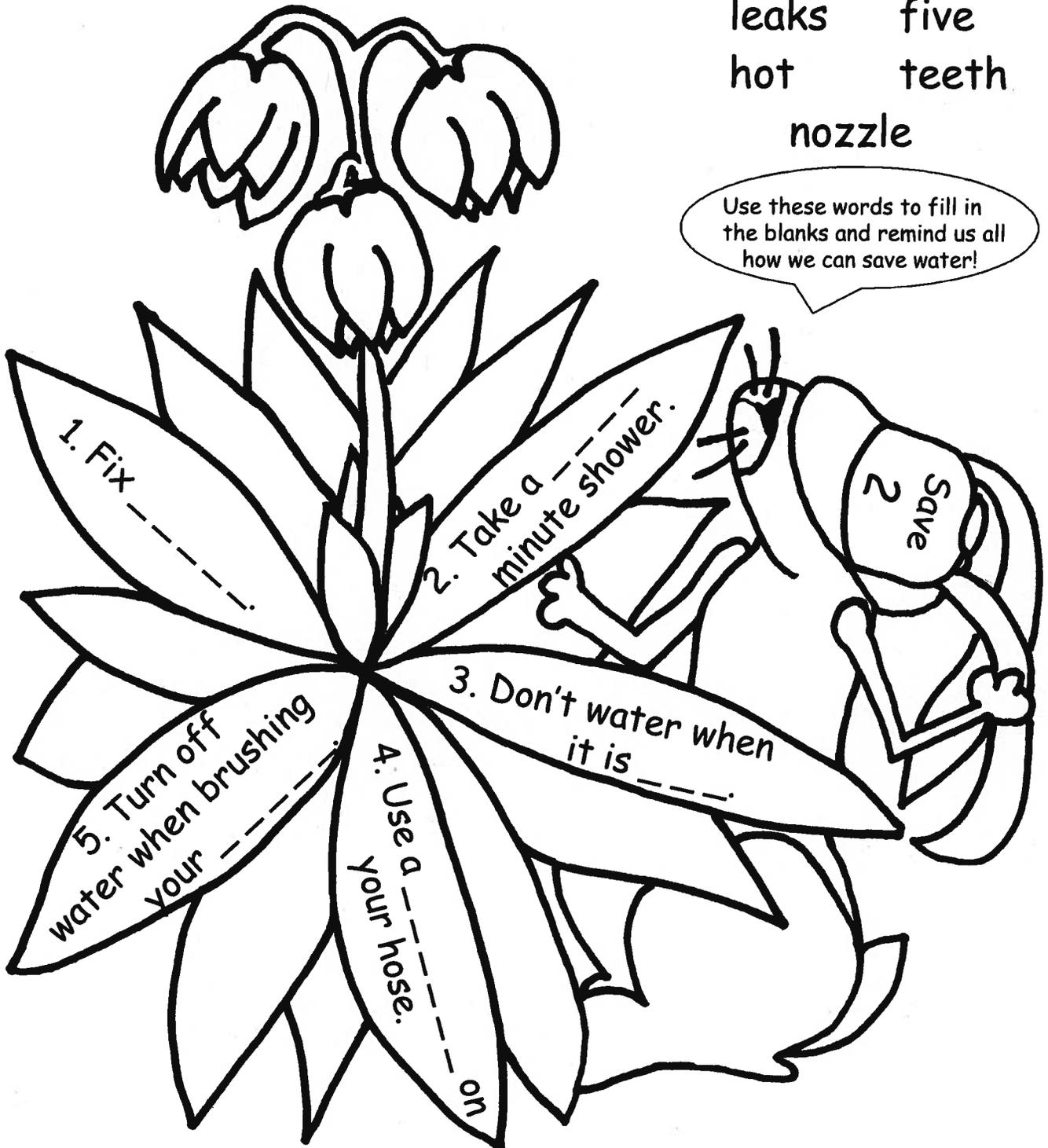
Finish

Yuccas love the desert.
If they could talk, they'd say,

Zero is how much water
you should waste each day!

leaks five
hot teeth
nozzle

Use these words to fill in
the blanks and remind us all
how we can save water!



A is for Aquifer*, water in the ground.
B is the color Blue water all around.



C is for Condensation, vapor turns into ...
D roplets on a grass stem. That's what we call dew!

Why can I see my breath in the winter?
 Think: When can I see my breath? In the winter, in the morning
 Guess: What might be causing my breath to change then?

Experiment: Fill one glass with hot water from your faucet. Fill another glass with ice water. Let them sit for a few minutes. Blow on the glasses.
 Observations: What do you observe on the glasses?
 The hot glass? Nothing
 The cold glass? Water droplets on glass
 Conclusion: Was the water vapor in your breath all the time? Yes
 Circle the best answer: The cold glass made the water vapor in your breath (evaporate/condense) freeze solid.

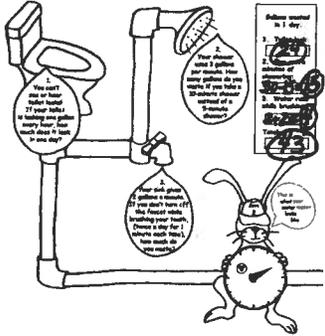
E is Evaporate when water becomes gas.
F is water Freezing ice as slick as glass.

EVAPORATION INQUIRY
 On a warm day, paint a square of sidewalk using water and a big paint brush. Try it on different shades of this day. How long does it take for the sidewalk to return to its original shade of grey?
 How long in the early morning? _____
 How long in the afternoon? _____
 How long in the evening? _____
 We don't want to water our yards when the water will evaporate quickly.
 What time of day should we water our yards? Morning or Evening
 FREEZING ILLUSTRATION
 Precipitation is water falling as rain, hail, sleet, or snow. Snowflakes are formed when liquid water turns into a solid. Can you draw these snowflakes?
 1. Draw your snowflake here
 2. Draw your snowflake here

G allons are for measuring water that we get.
H ooses give us 20 gallons every minute.



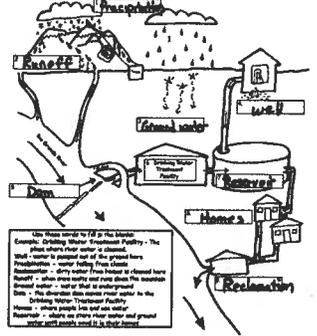
M is for water Meter; you won't be confused.
N umbers help us calculate gallons you should use.



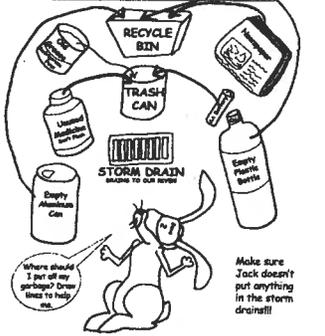
On-Track-Jack says, "Littering is wrong!"
P lastics end up in the river, where they don't belong.



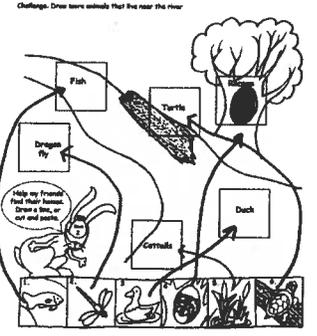
Q uench your thirst with water from your kitchen sink.
R iver and ground water cleaned and pure to drink.



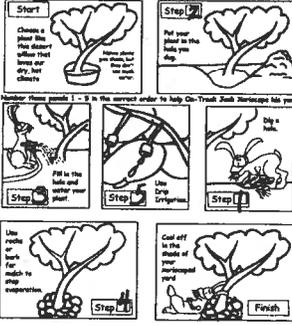
S is for storm drains; the rains flow down, away.
T hanks for keeping garbage out; our river's clean that way.



U nderwater fish and insects fit in this ecosystem.
V alve river wildlife; save some water for them.



W is for water. Don't waste this precious treasure.
X ercise with native plants. They give us twice the pleasure.



Yuccas love the desert. If they could talk, they'd say,
Z ero is how much water you should waste each day!



Answer Key

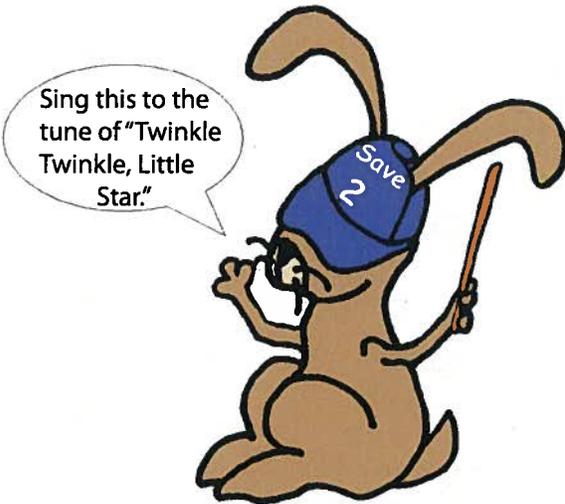


_____ has successfully
Your name
completed the On Track Jack Alphabet Book
and is an honorary Water Ranger.

Parent or Teacher signature

Practice Verse:
 Sprinkle, sprinkle,
 little drop.
 How I wonder
 where you'll stop.
 Up above
 our heads so high,
 falling, falling
 from the sky.
 Sprinkle, sprinkle,
 little drop.
 How I wonder
 where you'll STOP!

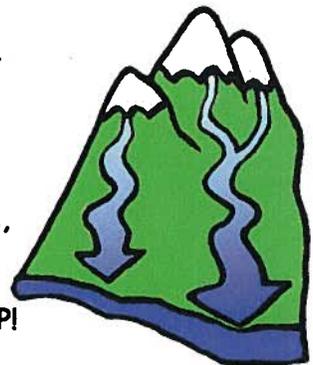
The Water Cycle Song



PRECIPITATION
 Sprinkle, sprinkle,
 little drop.
 How I wonder
 where you'll stop.
 I can see
 the rain or snow,
 sleet or hail,
 you never know.
 Sprinkle, sprinkle,
 little drop.
 How I wonder
 where you'll STOP!



RUNOFF
 Sprinkle, sprinkle,
 little drop.
 How I wonder
 where you'll stop.
 If you rain
 upon a hill,
 down you'll fall
 Jack and Jill.
 Sprinkle, sprinkle,
 little drop.
 How I wonder
 where you'll STOP!



INFILTRATION
 Sprinkle, sprinkle,
 little drop.
 How I wonder
 where you'll stop.
 When you land
 upon the ground,
 don't forget
 to sink way down.
 Sprinkle, sprinkle,
 little drop.
 How I wonder
 where you'll STOP!



EVAPORATION
 Sprinkle, sprinkle,
 little drop.
 How I wonder
 where you'll stop.
 When you land
 upon the ground,
 you float up
 without a sound.
 Sprinkle, sprinkle,
 little drop.
 How I wonder
 where you'll STOP!



TRANSPIRATION
 Sprinkle, sprinkle,
 little drop.
 How I wonder
 where you'll stop.
 All the plants
 need water and leaves
 to sweat and cool
 when it's 90 degrees.
 Sprinkle, sprinkle,
 little drop.
 How I wonder
 where you'll STOP!



CONDENSATION
 Sprinkle, sprinkle,
 little drop.
 How I wonder
 where you'll stop.
 Holding hands
 you make a cloud,
 fluffy white
 or dark and loud.
 Sprinkle, sprinkle,
 little drop.
 How I wonder
 where you'll STOP!

