

Introducing

Conservation Ken



Hi, My name is Conservation Ken
and I want to teach you about
water and energy conservation.
Follow me through this activity
book and we will have
lots of fun!



WHAT IS ENERGY?

It's the **POWER** to do work.

Energy can cool and heat homes and buildings.

It can make electricity to light our homes.

Energy can power our cars and even make machines run.

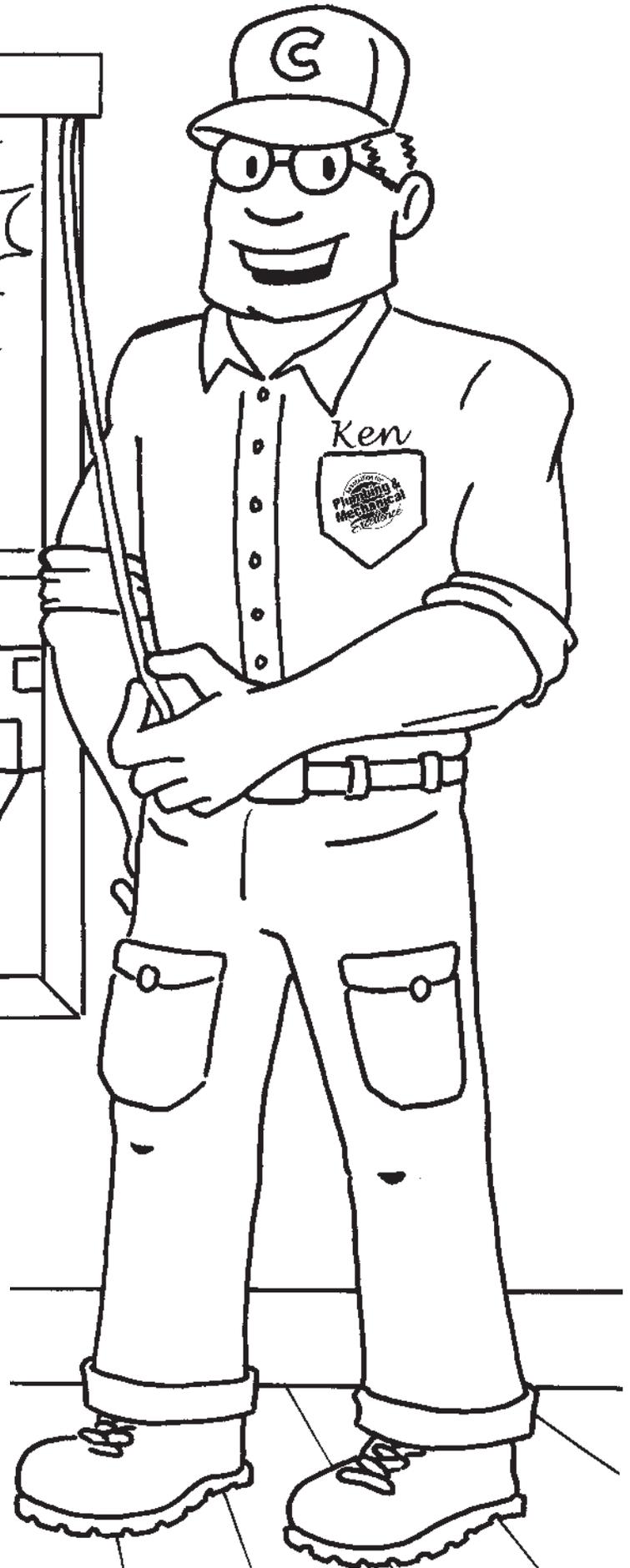
Think about what would happen if there wasn't enough energy...there would be no lights to turn on when it got dark...there would not be any hot water for the shower or heat for your house in the winter...no gas or oil to drive the car...so there are lots of reasons we should save energy.

WHAT IS WATER?

A clear, colorless, odorless and tasteless **LIQUID** that is essential for most plant and animal life.

Think about what would happen if there wasn't enough water...there would be no water in your swimming pool...there would not be any water for you to take a shower...no water to keep your plants alive...no water to drink when you are thirsty...so there are lots of reasons we should save water.

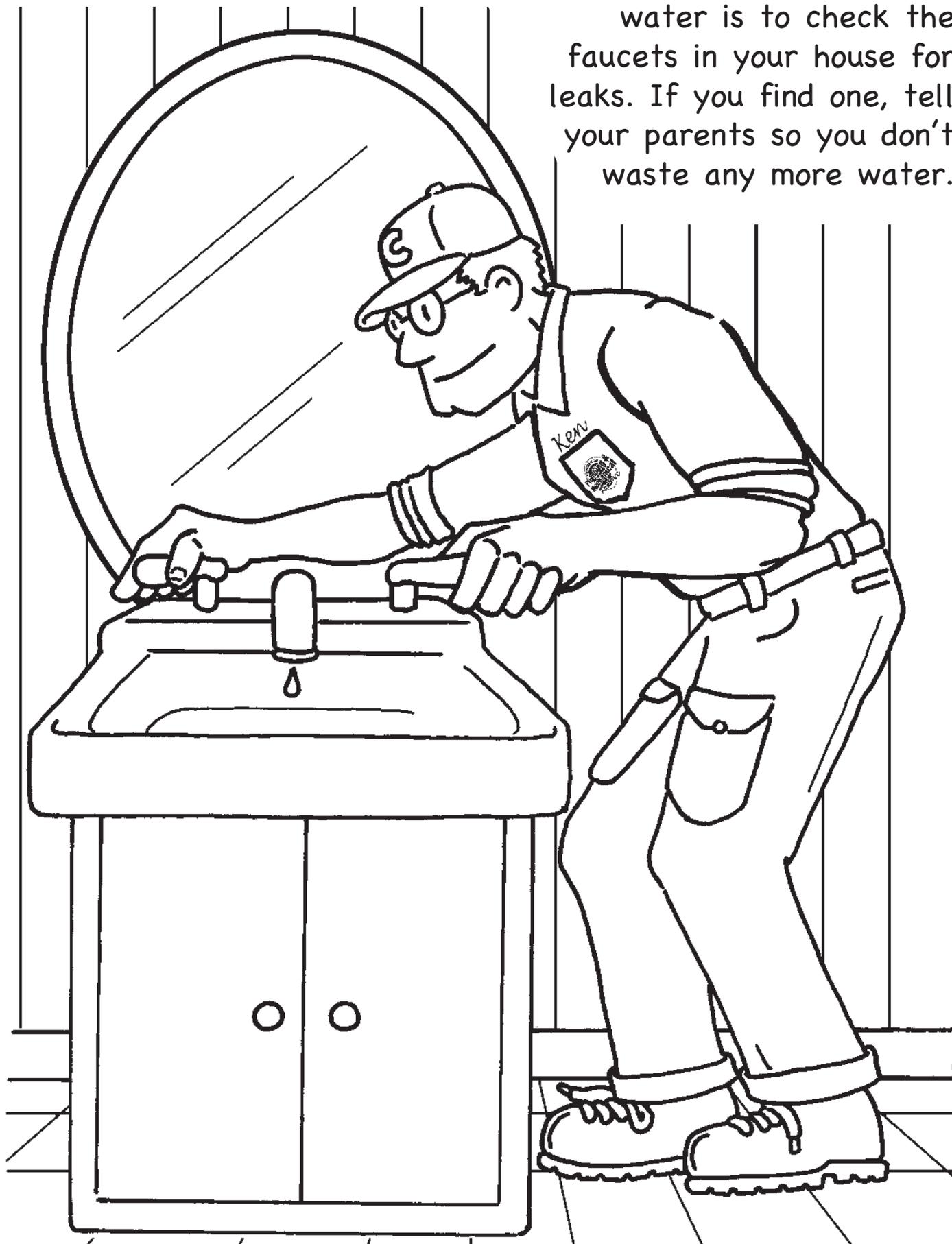
It's Coloring Time!



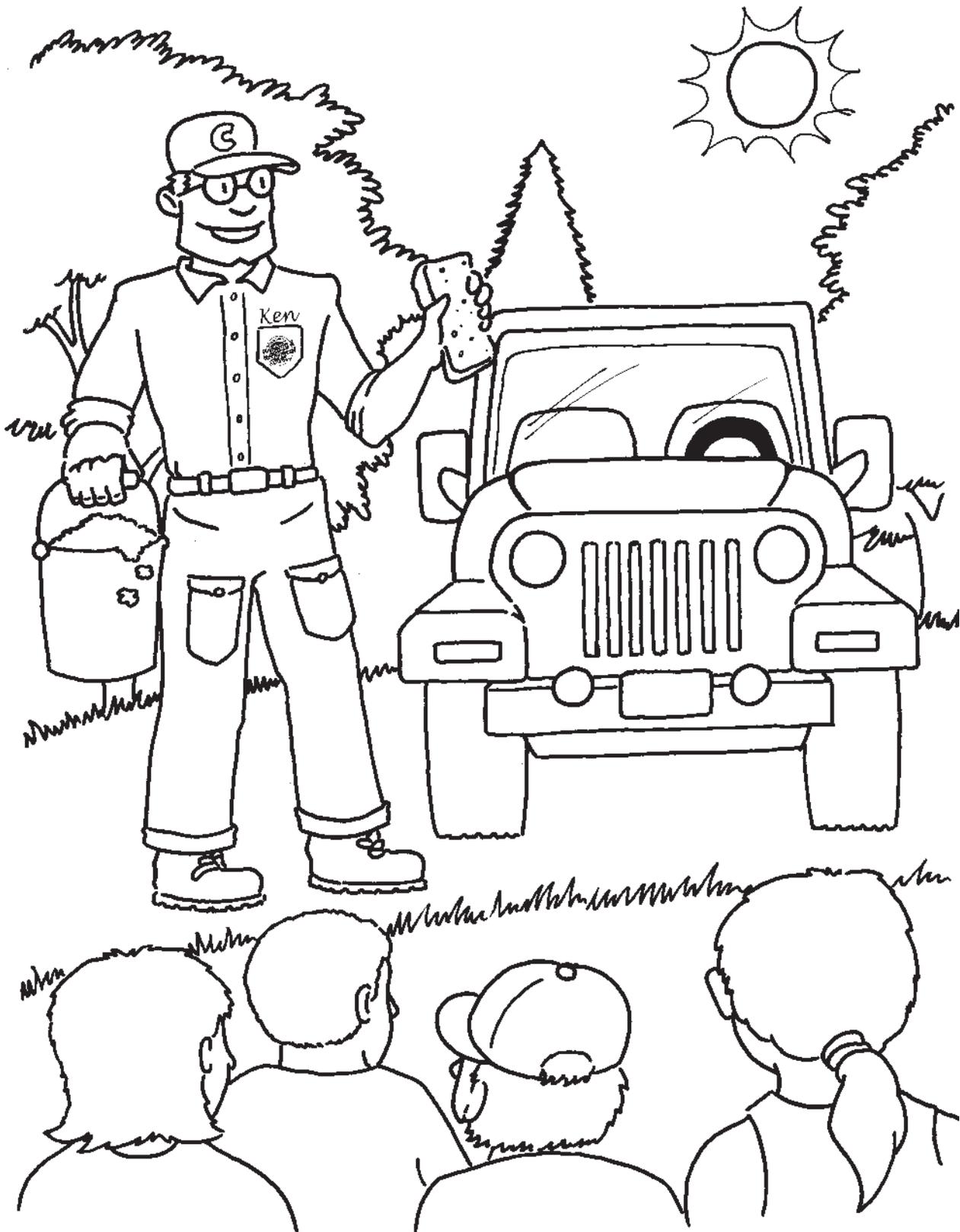
There are many ways to conserve energy. During the winter, you can open the curtains and use the sunlight to add warmth to your house. In the summer, you should close the curtains to keep the sunlight from heating your house.

It's Coloring Time!

One way to help conserve water is to check the faucets in your house for leaks. If you find one, tell your parents so you don't waste any more water.



It's Coloring Time!



Using a hose to wash your car wastes a lot of water.
When washing a car in your driveway, use a sponge
to clean and rinse your car instead.

Connect the Dots!

Connect the dots below to reveal the surprise image!



Earthy Facts!

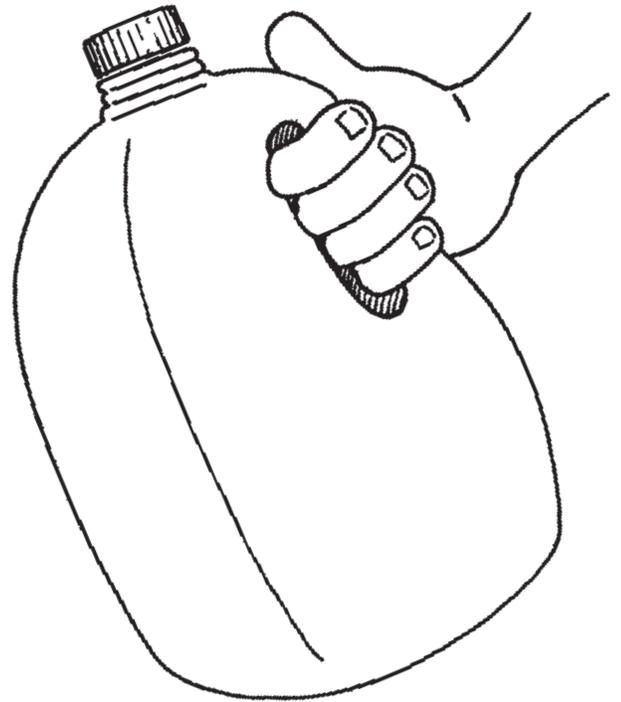
- 80% of the earth's surface is water
- 97% of the earth's water is oceans or seas
- 2% of the earth's water is frozen and therefore unusable
- So, only 1% of the earth's water is suitable for drinking
- There is as much water in the world today as there was thousands of years ago
- The water in the world today is the same water from thousands of years ago
- Water is part of a deeply interconnected system—what we pour on the ground ends up in our water, and what we spew into the sky ends up in our water



Gallons of Facts!

Every day we use gallons and gallons of water. When we don't think about it, we waste a lot! Here are the facts on how many gallons the average person uses each day:

- Taking a bath or shower.....15-30 gallons
- Watering the lawn.....180 gallons
- Washing the dishes.....15-60 gallons
- Washing clothes.....30 gallons
- Flushing the toilet.....4-7 gallons
- Brushing teeth.....1 gallon
- Drinking.....1/2 gallon



Funny Faces!

It makes me really happy when kids help conserve the earth's resources, and I really love it when kids teach others how to conserve.



Fill in Ken's face to show how he feels about the way you conserve water and energy.



Word Search!



Conserving water and energy is easy! I bet you can do it! I'll even help you learn some key words for conserving the earth's resources.

Using energy and water wisely means being efficient. You use energy and water everyday at home, at school, at work and even when you're playing. By saving energy you're helping to save the world's energy resources like gas, oil and water. Best of all, by using energy and water wisely you can cut down on pollutants in the air and water, making a better environment for everyone.

Find all the words below to prove you are ready to start conserving energy and water.

WORDS TO FIND:

CLEAN
CONSERVE
DRINK
EARTH
ENERGY
INSULATION
LAKE
LIQUID
OCEAN
PIPES
POWER
PROTECT
RECYCLE
REFRIGERATOR
REUSE
RIVER
SAVE
SHOWER
SUN
SUNLIGHT
VAPOR
WATER
WINDOWS
WRENCH

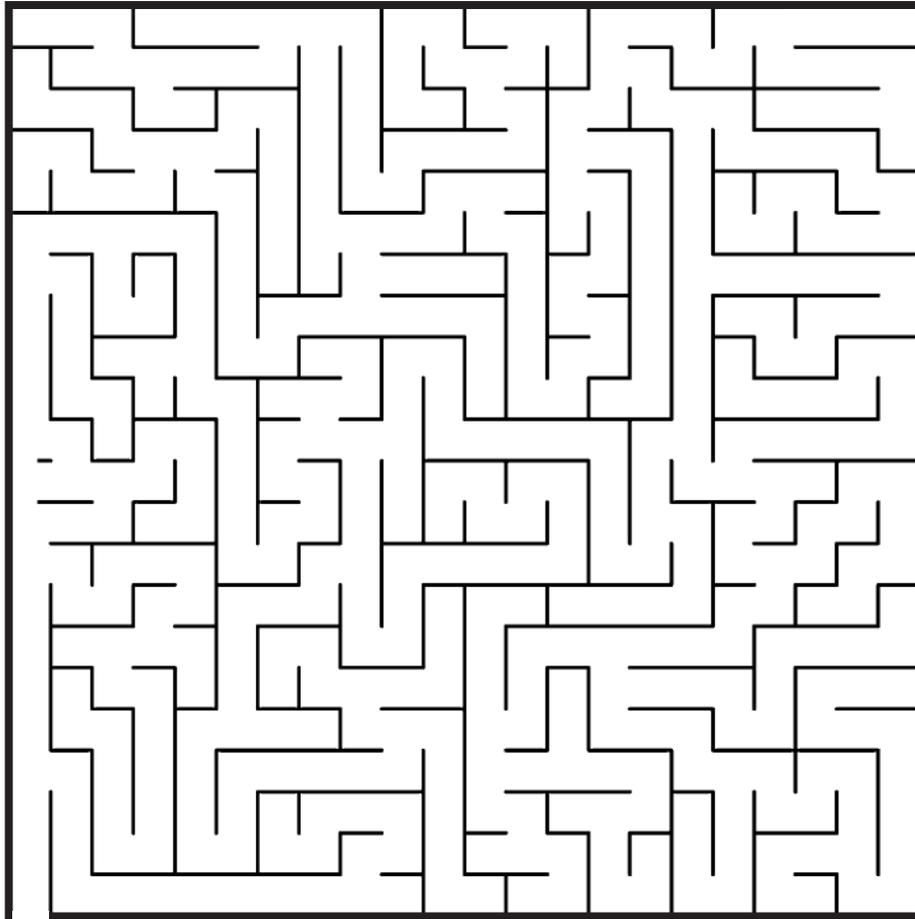
R	H	W	M	K	O	I	A	E	U	I	E	T	L	W
F	A	G	Z	L	Z	F	V	G	J	B	H	N	G	T
T	Z	R	G	B	P	A	W	T	S	O	B	U	G	Y
H	H	C	O	N	S	E	R	V	E	H	L	V	O	I
D	X	G	Q	T	A	R	A	G	C	C	L	E	A	N
R	I	Z	I	R	A	P	E	X	G	N	X	L	U	S
I	O	U	T	L	O	R	O	T	H	E	U	A	A	E
N	K	H	Q	R	N	K	E	W	A	R	M	P	S	Z
K	H	X	A	I	J	U	R	G	E	W	T	U	T	X
N	O	I	T	A	L	U	S	N	I	R	E	C	C	F
K	C	T	L	A	T	H	J	N	J	R	I	V	E	R
O	E	N	K	S	O	I	D	W	S	C	F	Q	T	C
Z	A	E	M	W	O	O	Y	G	R	E	N	E	O	U
A	N	N	E	X	W	A	E	L	C	Y	C	E	R	S
E	Z	R	T	S	E	C	N	D	S	E	P	I	P	N

Fix a Leak!

Ken needs to fix a leak under the sink. Help him find his wrench so he can conserve water.



start



finish



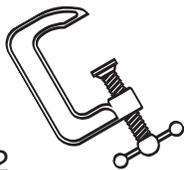
Match the Tools!

Match the plumbing tools to their names.



1

Plunger



2

Pipe Wrench



3

Hacksaw



4

Screwdriver

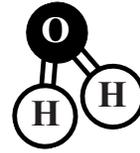


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Clamp

Fun Facts About Water Conservation!

- Every day in the United States, we drink about 110 million gallons of water
- Water is composed of two elements, Hydrogen and Oxygen.
2 Hydrogen + 1 Oxygen = H₂O
- Water expands by 9% when it freezes. Frozen water (ice) is lighter than water, which is why ice floats in water
- 17,000,000 homes use private wells for their water supply
- Water is the only substance found on earth naturally in the three forms (solid, liquid, and gas)
- The average person pays 25 cents per day for water
- One gallon of water weighs 8.34 pounds
- Water freezes at 32 degrees F, 0 degrees C
- Water vaporizes at 212 degrees F, 100 degrees C



Awesome Percentages!

- The human body is 66% water
- The human brain is 75% water
- A chicken is 75% water
- A pineapple is 80% water
- A tomato is 95% water
- An elephant is 70% water
- An ear of corn is 80% water
- A tree is 75% water



What You Can Do!

Everyone can learn to conserve water and energy. Become a Special Environmental Agent today and start saving the world's energy resources!



Cut out your badge, fill in your name, recite your oath and you'll be all set to start saving the world!



The Special Environmental Agent Oath

I (your name goes here) do solemnly swear that I will faithfully execute the duties of Special Environmental Agent, and will, to the best of my ability, conserve, preserve, protect and defend the ecosystems of the world around me. So help me, Mother Nature.

Conservation Tips!

- Don't leave windows or doors open when the heat or air conditioning is on
- Run your dishwasher and washing machines only when they are full
- Never put water down the drain when there may be another use for it such as watering a plant or garden, or cleaning
- Store drinking water in the refrigerator rather than letting the tap run every time you want a cool glass of water
- Do not hose down your driveway or sidewalk. Use a broom to clean leaves and other debris from these areas
- Check all faucets, pipes and toilets for leaks
- Take shorter showers instead of baths
- Turn off the water while brushing your teeth
- Rinse vegetables in a full sink or pan of water



Thanks for letting me
teach you about water and
energy conservation! You're
all set to spread the word!
Go forth and conserve!



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To find an association contractor near you visit:

www.plumbingexcellence.org
www.mechanicalexcellence.org



This book was printed on recycled paper.

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