



The National  
Theatre for Children

This booklet belongs to:

# ONCE UPON A FLAME



**Take this booklet home!**

Share the activities inside with  
your family to help them save  
natural gas, too.

 **ENBRIDGE**<sup>®</sup>

# ONCE UPON A FLAME

Tinkerfred has a problem. He wants to bake a cake for his niece, but none of the natural gas appliances are working. Luckily his friend, Little Blue Riding Hood, comes along and explains to him how we use natural gas. She suspects this is the doing of the Wicked Witch of the Upper Northwest.

The only way Tinkerfred can fix things is by learning all he can about natural gas.

Next, Tinkerfred meets Scratching Beauty, who teaches Tinkerfred how natural gas is formed through geologic processes from the remains of dead plants and animals. Tinkerfred thanks Scratching Beauty for all of her help and sets off.

Tinkerfred then runs into The Regular-Sized Good Wolf. He shows Tinkerfred some easy ways to conserve natural gas and also what to do if you smell the rotten egg smell of a natural gas leak. Tinkerfred sets off to confront the Wicked Witch.

The Wicked Witch arrives and, with the help of a student volunteer, Tinkerfred tells her everything he has learned.

Has the Wicked Witch learned to conserve natural gas? Will Tinkerfred bake the cake in time?



Wicked Witch of the Upper Northwest

## WORDS TO KNOW

<b>Conserve</b>	To use wisely; the opposite of waste
<b>Energy</b>	The ability to do work and the force that makes things change
<b>Geology</b>	The science that deals with the Earth's physical structure
<b>Natural Gas</b>	A resource used in our homes for cooking and heating
<b>Natural Resource</b>	Something that is found in nature and useful to humans (coal, water and natural gas are examples)
<b>Pipeline</b>	A long tube, often underground, used to transport oil, natural gas or water over great distances
<b>Mercaptan</b>	The rotten egg smell that is added to natural gas so you can tell if there is a leak
<b>Safety</b>	Avoiding injury or danger
<b>Waste</b>	To use unwisely; the opposite of conserve

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Tinkerfred



Scratching Beauty



The Regular Good-Sized Wolf

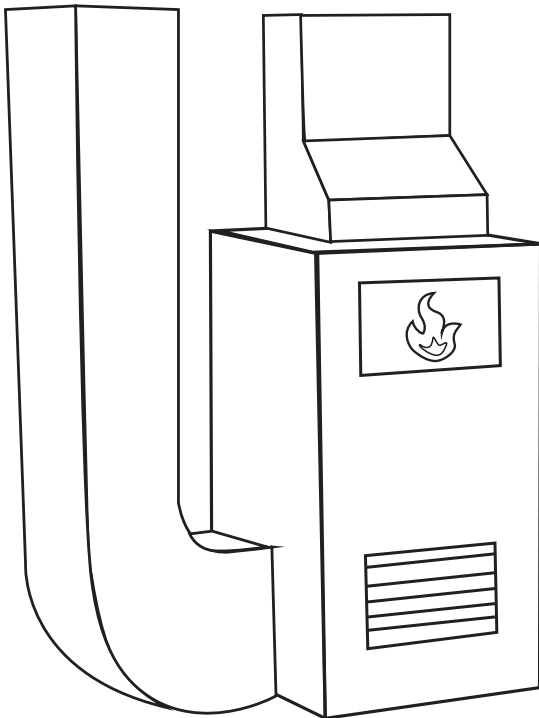


Little Blue Riding Hood

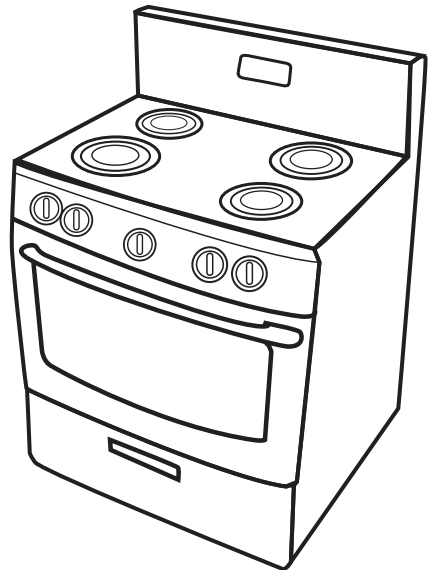
# COLOR AND SHARE

We use natural gas in many ways. Color the pictures and hang your work where friends and family will see it.

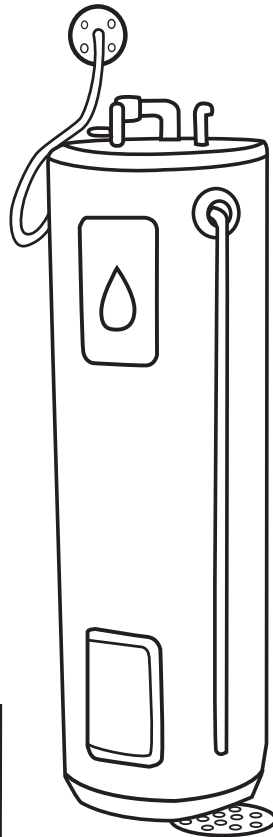
**FURNACE**



**OVEN AND STOVETOP**

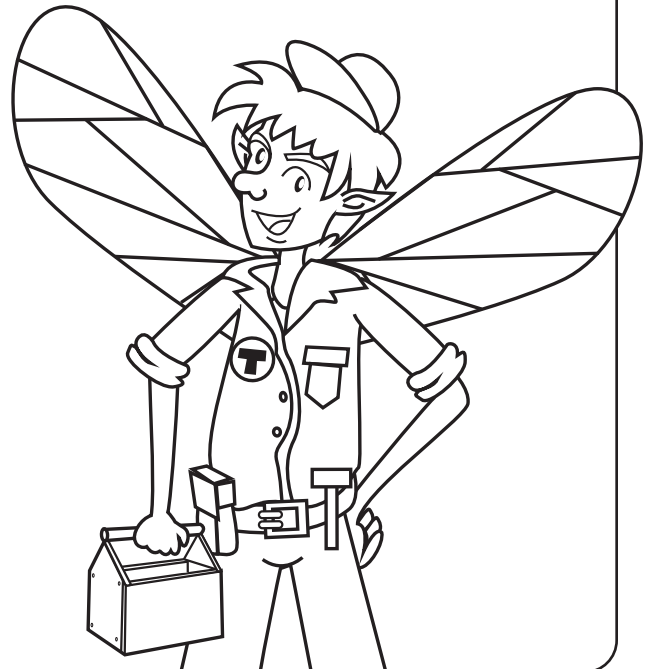


**WATER HEATER**



## Dig Deeper!

Ask a grown up to help you find these appliances in your home. Do yours run on natural gas?



# MATCHILY EVER AFTER

Find and circle the matching messages, then cross out the other messages. Rewrite the crossed-out messages to help everyone conserve and be safe around natural gas.

There is an endless supply of natural gas.

We use natural resources every day.

Use natural gas wisely.

Natural gas smells like rotten eggs.

Use natural gas wisely.

Natural gas isn't important in our homes.

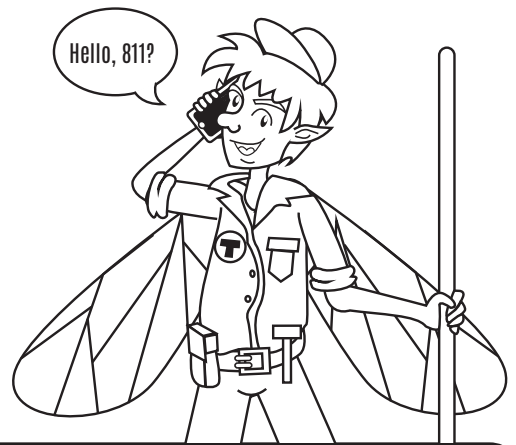
We use natural resources every day.

Don't tell anyone if you smell natural gas.

Natural gas smells like rotten eggs.

**DRAW A  
LINE TO**

# DEFINE



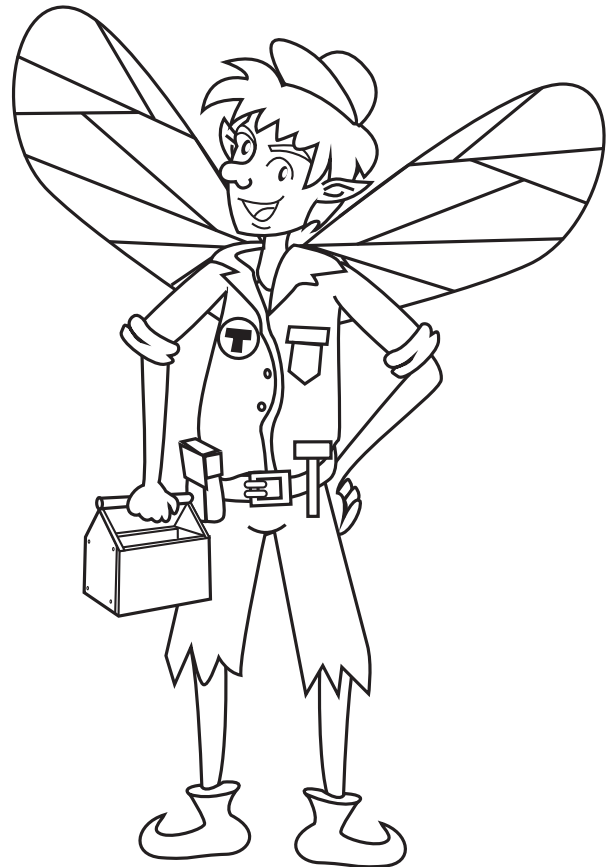
Draw a line between the words on the left to the correct definitions on the right, using the pipelines.

<b>Conserve</b>		The ability to do work and the force that makes things change
<b>Energy</b>		Something that is found in nature and useful to humans (coal, water and natural gas are examples)
<b>Geology</b>		To use wisely; the opposite of waste
<b>Natural Gas</b>		The science that deals with the Earth's physical structure
<b>Natural Resource</b>		The rotten egg smell that is added to natural gas so you can tell there is a leak
<b>Mercaptan</b>		Avoiding injury or danger
<b>Safety</b>		A resource used in our homes for cooking and heating

# SPREAD THE WORD

Pretend you just started a newspaper called the *Natural Gas Gazette*. How would you write an article for the paper to let everyone know what you have learned about natural gas? If you want to complete the rest of the activities first, that's okay! When you're ready to write your article, make sure it includes **how natural gas is formed**, **how natural gas gets to your home** and **one way to conserve natural gas**. Every good article includes a picture; draw something to go along with your article when you're finished writing.

Teachers/caregivers, have your student read their article out loud to you when they're done. Then, tear out the page and hang up their article somewhere everyone can see it!

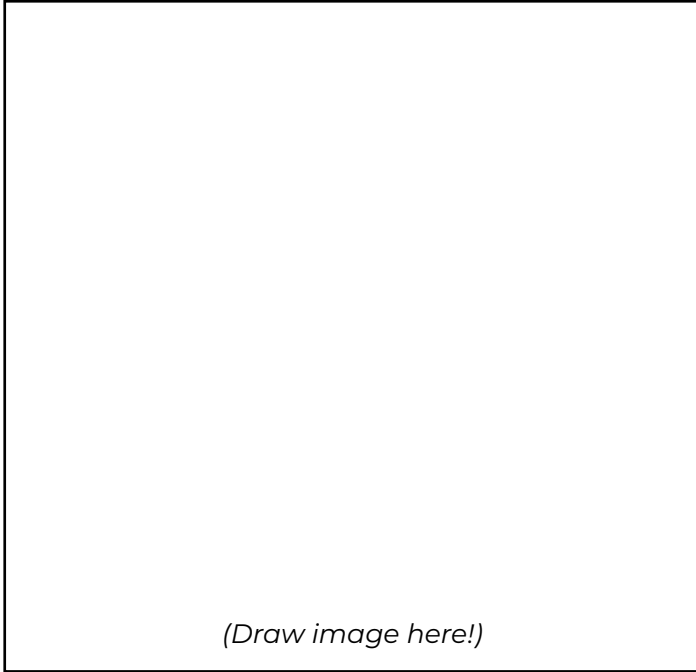


## Dig Deeper!

Try using some of the vocabulary words on the inside cover of this booklet in your newspaper article. Then make sure you include them in the picture, too!

# Natural Gas Gazette

*(Write headline here!)*



*(Draw image here!)*

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# MESSAGE MATH

Do the math and fill in the spaces below to discover a way to save energy.  
Read the message out loud once you've completed it.

$97 - 5 = \square \quad E$

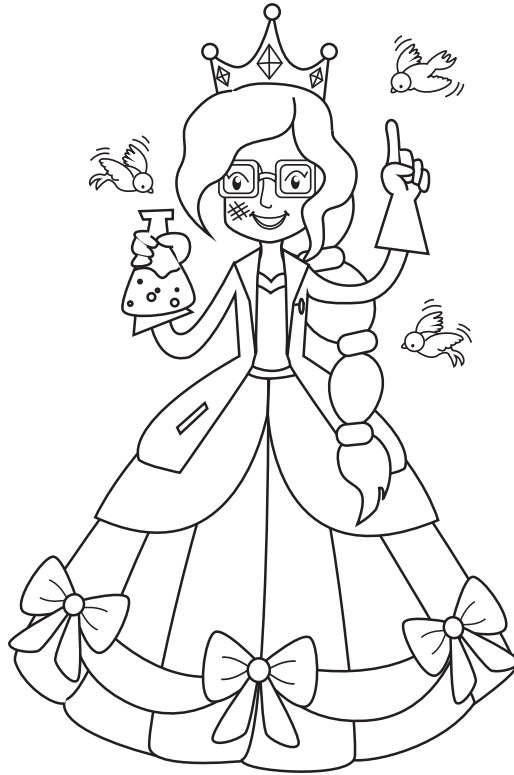
$40 + 5 = \square \quad A$

$3 \times 17 = \square \quad V$

$15 \div 5 = \square \quad H$

$10 \times 8 = \square \quad P$

$7 + 18 = \square \quad S$



$99 + 15 = \square \quad R$

$36 \div 6 = \square \quad U$

$13 + 7 = \square \quad O$

$12 - 12 = \square \quad N$

$33 \times 3 = \square \quad Y$

$65 - 9 = \square \quad T$

**To save energy,**

\_\_\_\_\_

3      45      51      92                      99      20      6      114

\_\_\_\_\_

80      45      114      92      0      56      25





**install a programmable thermostat.**

# SECRET CODE





Use the secret code at the bottom of the page to decode each of the natural gas conservation facts. When you are done, share these tips with your family.



Only do \_\_\_\_\_ loads of laundry.

Make sure your \_\_\_\_\_ is the right temperature.



Saving \_\_\_\_\_ can also save natural gas.







## SECRET CODE









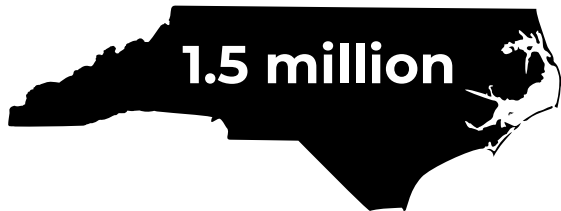




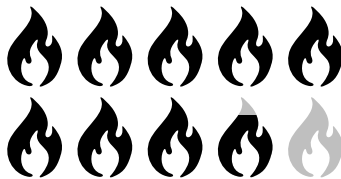
**A E F H L M O R T U W**

# HERE AND THERE

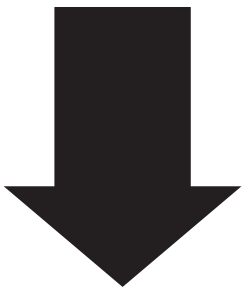
1.5 million people use natural gas in North Carolina.



About 88% of the natural gas used in the USA is produced in the USA.



Most of the natural gas that is imported to the USA is from Canada.



Carbon emissions in North Carolina have declined by **25%** since 2007.

Globally, carbon emissions have declined 1% since 2007. North Carolina is leading the way by switching to natural gas!



## IT'S YOUR TURN!

Do some research and find another fact about natural gas in North Carolina, the USA or your city.

Do some research and find another fact about natural gas in somewhere else in the world!

Hey parents, students and teachers!

GO TO:

NTC **Playworks**.com



Check out more fun learning activities and resources on this topic at [NTCplayworks.com!](https://www.NTCplayworks.com)



### Here's How:

1. Go to [NTCplayworks.com](https://www.NTCplayworks.com)
2. Select your state and program
3. Enjoy the digital games, interactive activities, e-books and more

