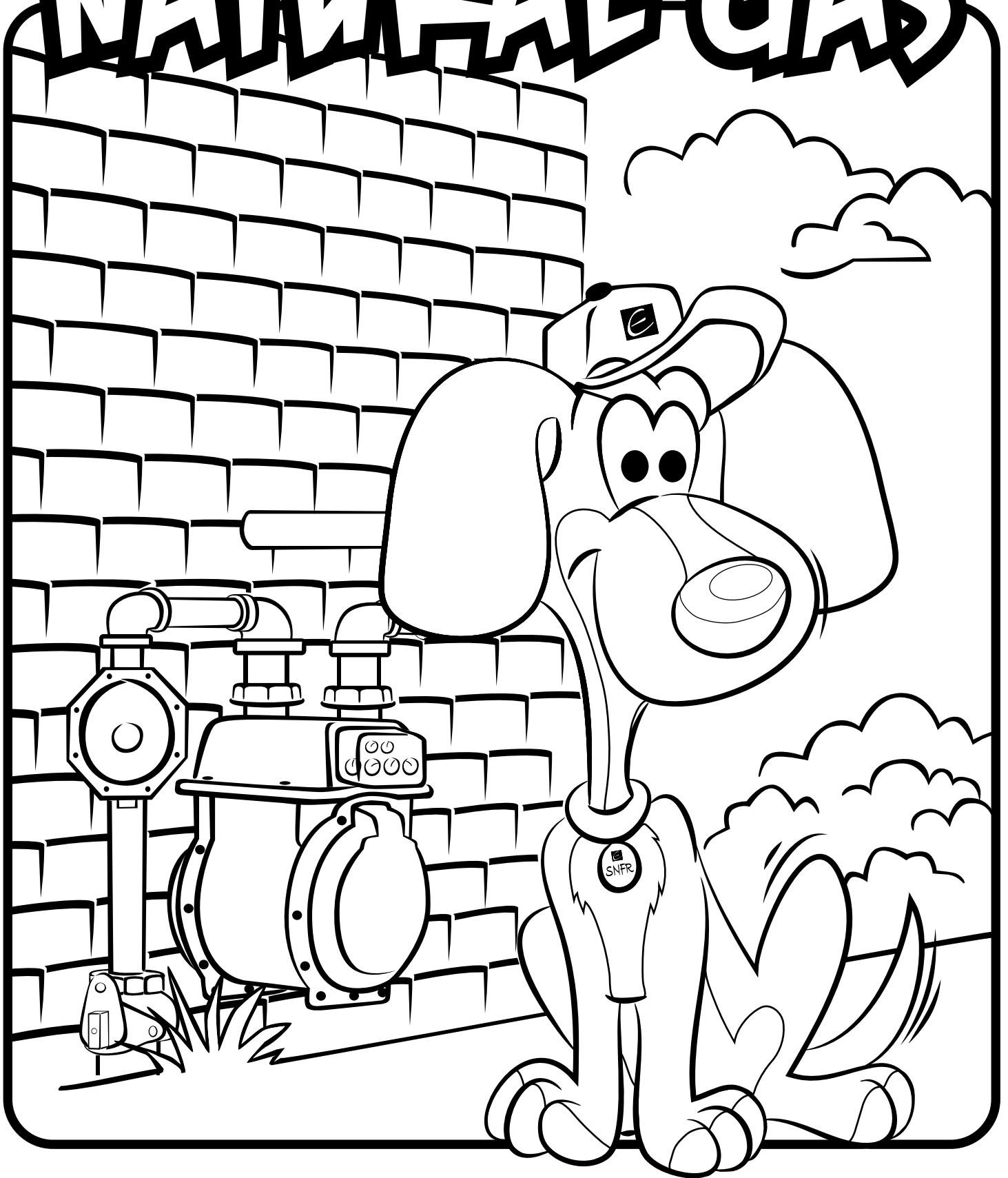


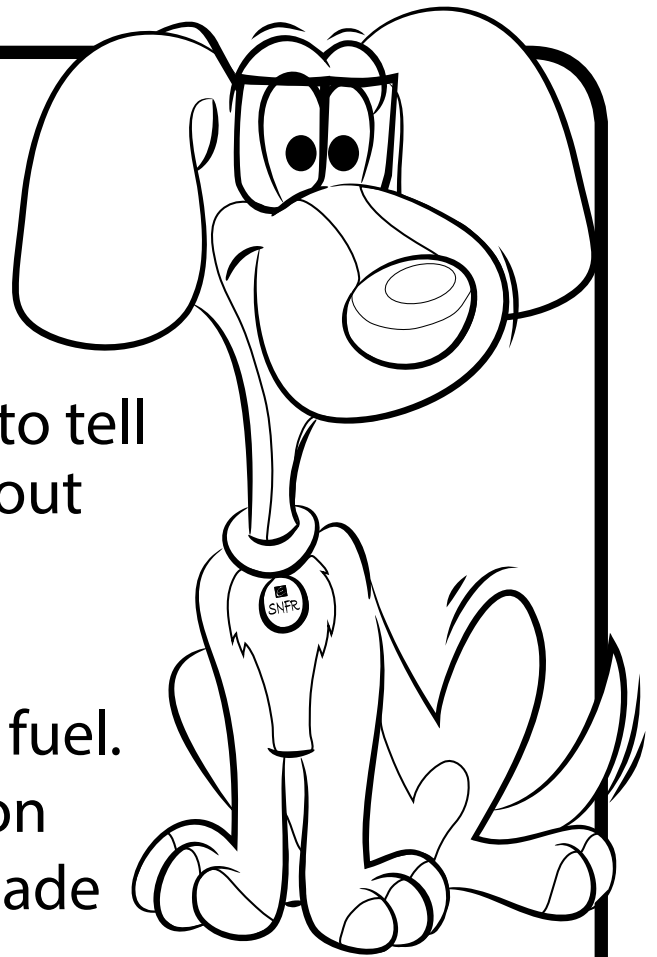
# LEARNING ABOUT NATURAL GAS



# What is Natural Gas?

Meet SNFR, he's here to help teach you about natural gas.

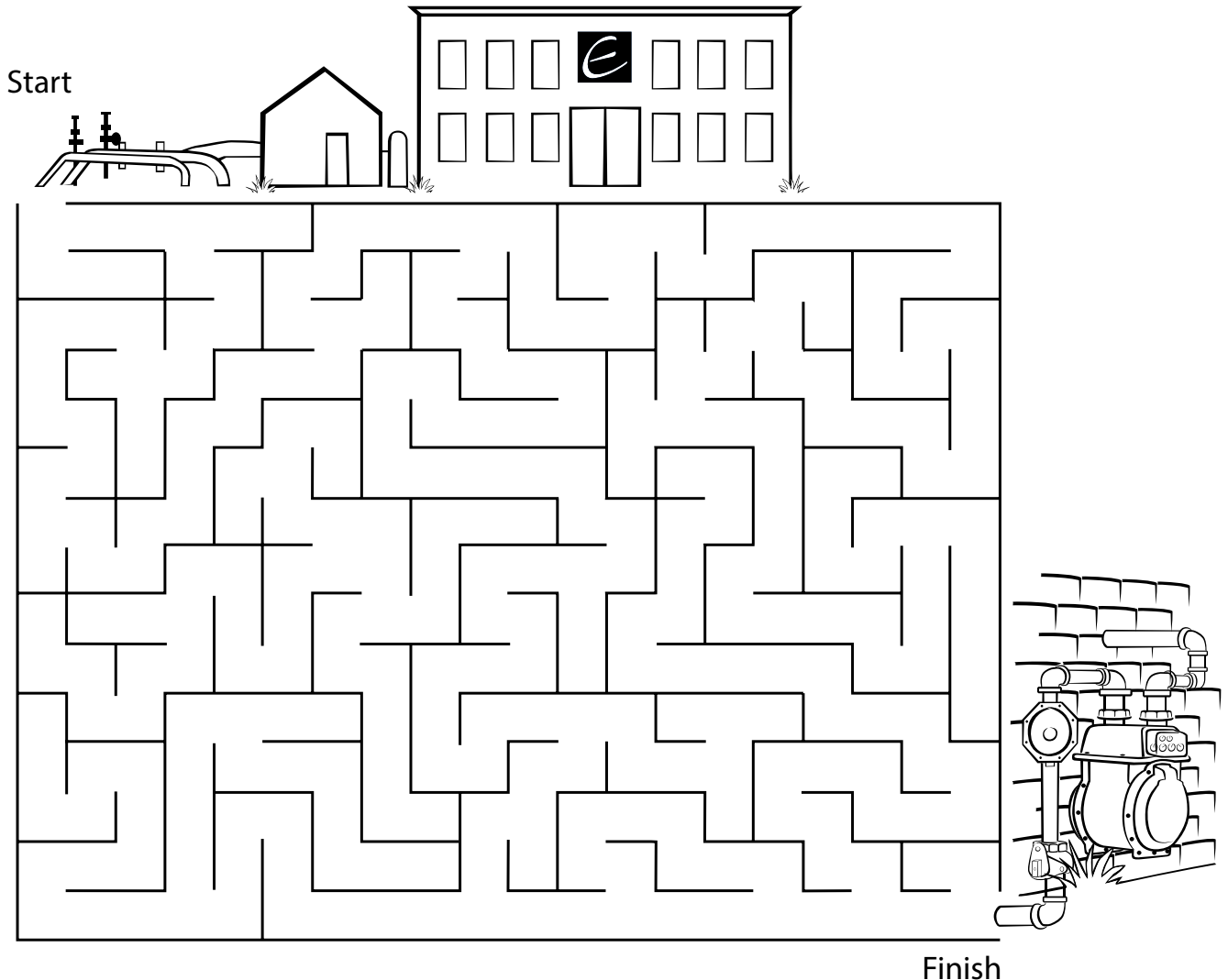
To get started, he wants you to tell him how much you know about natural gas.



1. Natural gas is a \_\_\_\_\_ fuel.
2. Natural gas is a combination of gases, but is primarily made of \_\_\_\_\_.
3. Natural gas was formed about \_\_\_\_\_ years ago.
4. Natural gas is an energy resource found \_\_\_\_\_.
5. Natural gas emits less \_\_\_\_\_ and \_\_\_\_\_ into the air because it burns clean.
6. Natural gas is \_\_\_\_\_ than air.
7. In Jackson, TN in 1871, natural gas was first used in \_\_\_\_\_.
8. Natural gas is produced in \_\_\_\_\_ of the 50 states in the United States.

# How Do We Get Natural Gas?

Natural gas is pumped up from the Earth to a plant where it is processed. From there it goes to a compressor station to be pressurized. The natural gas then moves through a series of underground pipelines to get to the meter on the side of your house. Small pipes inside your house carry the gas to appliances. Can you find the path of natural gas from Jackson Energy Authority to your home in the maze below?



# How and Where Is Natural Gas Used?

Natural gas is a versatile fuel that can be used many different ways. SNFR has hidden lots of words about how and where natural gas can be used. See how fast you can find them!

*(Hint: The words can be found forward, backward, diagonal and up and down)*

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

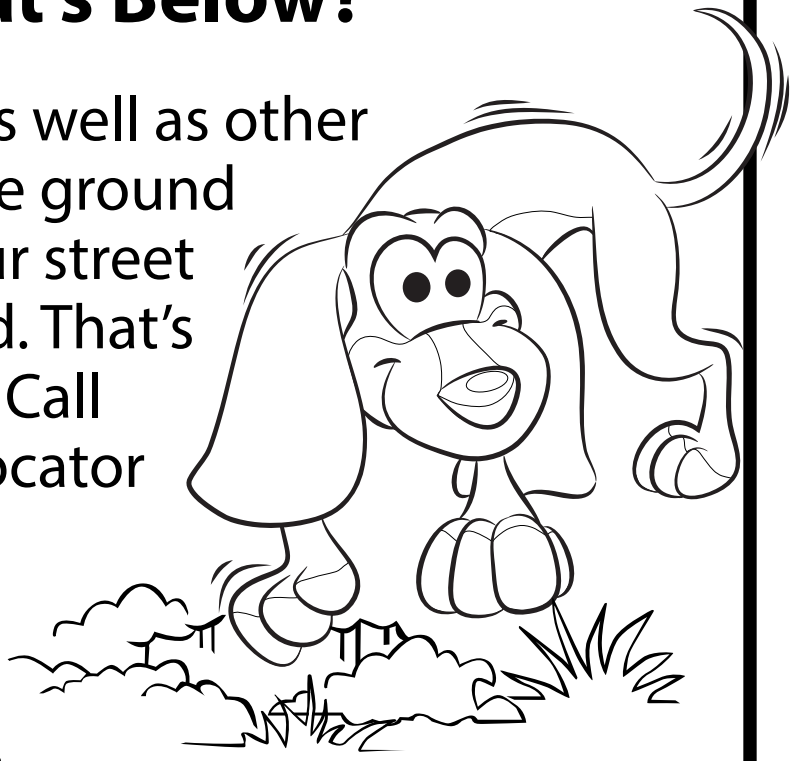
heat  
factories  
lights  
fleets  
churches  
cooking  
manufacturing  
cars

restaurants  
schools  
grilling  
fuel  
farming  
hotels  
fireplace



# Do You Know What's Below?

Natural gas pipelines, as well as other utilities are buried in the ground around your house, your street and your neighborhood. That's why you should always Call 811 Before You Dig. A locator will come and put out colored flags or spray paint marks where the pipes are underground.



Each mark has a specific color to tell what's below. Unscramble the words, then color the flag to match the color of what's buried.

- RED = Electric Power Lines
- YELLOW = Gas Pipes
- ORANGE = TV, Internet, Phone Lines
- BLUE = Drinking Water Pipes
- GREEN = Sewer Pipes

**811** Know what's below.  
Call before you dig.  
[www.call811.com](http://www.call811.com)

SAG

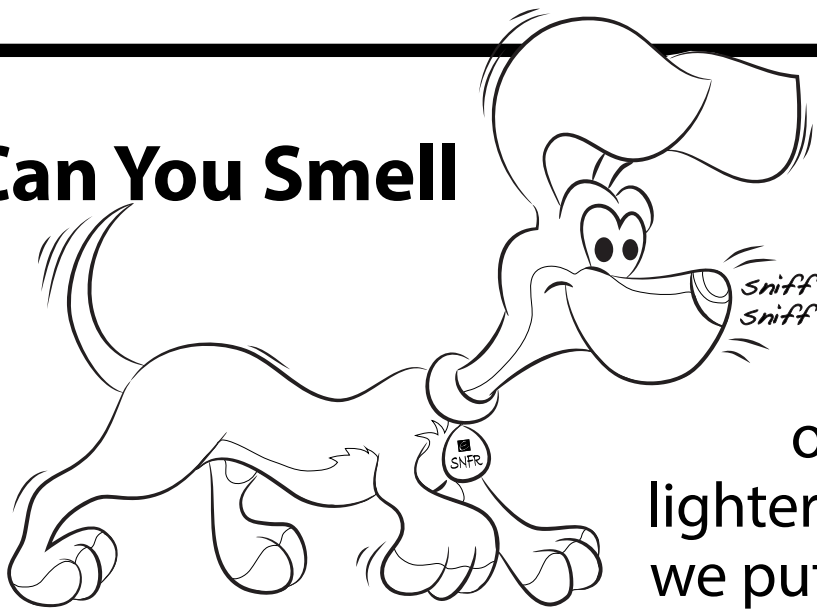
VT  
NTERTNIE  
OPNEH

CLERTICE

KNINDRIG  
ETRAW

WESER

## Can You Smell



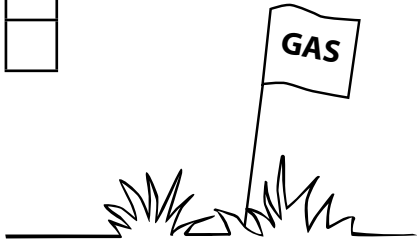
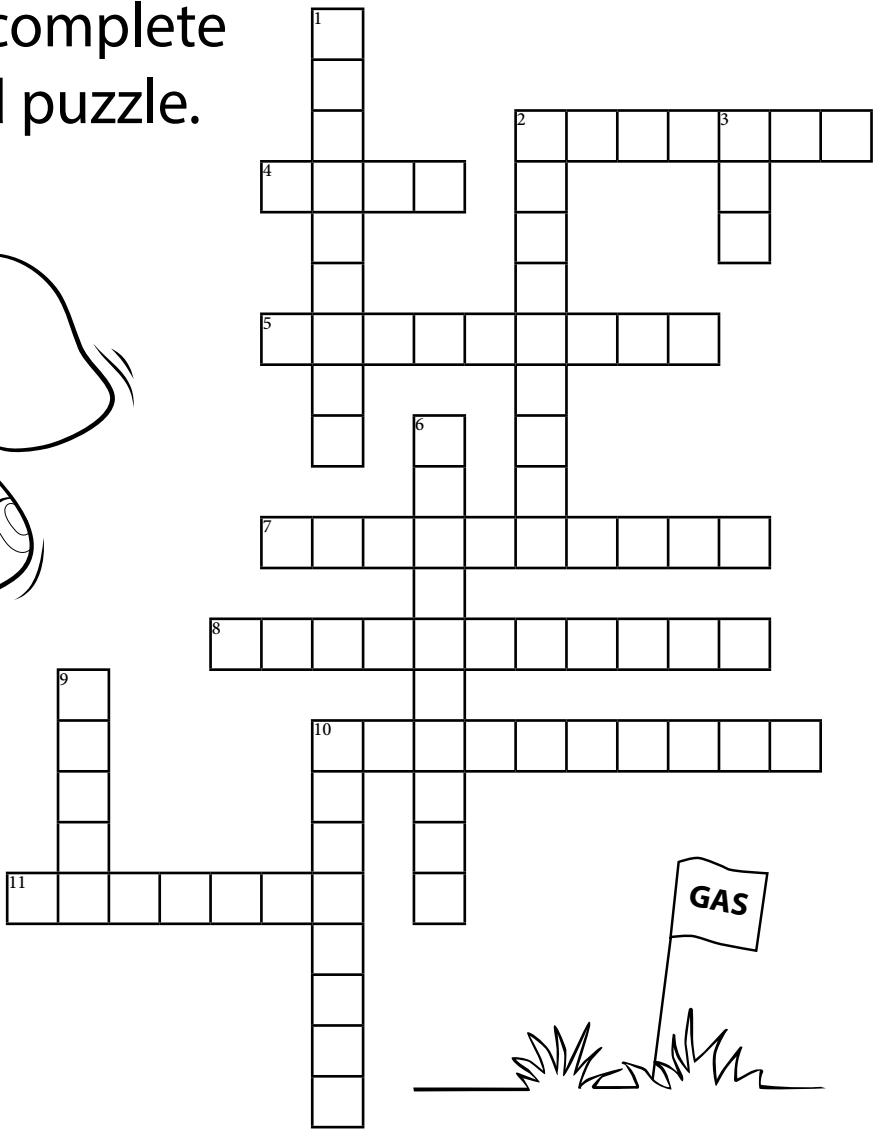
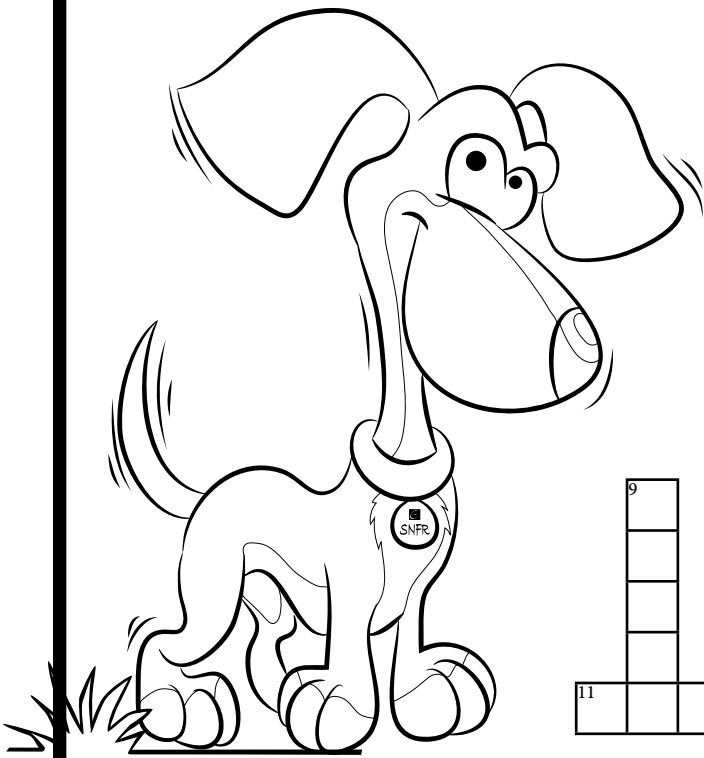
## Natural Gas?

Natural gas is colorless, odorless and lighter than air. At JEA, we put a chemical in called Mercaptan [mer-**kap**-tan] as a built-in safety signal. It smells stinky, like rotten eggs - but that's good! SNFR knows what to do if he smells natural gas, do you?

1. If there's a smell in my house like rotten eggs and there are no eggs around, I should leave the house and go tell an adult. True False
2. After I tell an adult, we should stay inside and wait for someone to come. True False
3. If I smell a stinky smell like rotten eggs at my house, I should not use a cell phone or flip on a switch inside the house. True False
4. If I am outside playing in the yard and I smell something like rotten eggs or dirt blowing up that could be natural gas. True False

# Do You Know About Natural Gas?

Use the clues to complete SNFR's crossword puzzle.



## Across

2. The main ingredient in natural gas
4. The color of a natural gas flame on a natural gas appliance
5. Natural gas is older than these extinct animals
7. The stinky smell of natural gas
8. Where natural gas pipes are found
10. The small blue flame on a natural gas appliance
11. Portable gas used in barbecue grills

## Down

1. A person who looks for natural gas in the ground
2. The chemical added to make natural gas smell stinky
3. Natural gas needs this to burn properly
6. A clean burning fossil fuel
9. The equipment that shows how much gas we use at home
10. How natural gas is delivered to my neighborhood

# 10 Things to Remember:

Now that SNFR has helped you learn more about natural gas, he wants you to make sure and remember these safety tips:

1. Natural gas smells like stinky rotten eggs.
2. If a really bad smell happens all of a sudden, move far away from the smell and find an adult to call Jackson Energy Authority at 422-7500.
3. Remind adults to always call 811 before they dig.
4. Don't try to use a gas appliance to keep warm.
5. Don't store or stack any clothing, boxes, paint next to a natural gas appliance.
6. If your kitchen has a natural gas stove, don't wear saggy or oversized clothing around it.
7. Don't mess with or try to blow out the little blue flame on a natural gas appliance.
8. Don't mess with or move any of the markers for underground utilities.
9. Do not play on the pipes or the natural gas meter around your house.
10. Be aware of the signs around you that mark underground pipelines.

