

# Safety BINGO

## Objective:

Students will learn safety rules about natural gas for inside and outside a building or home.

## ► Introduction

There are many safety considerations when using fuel sources at home, school or outside. Natural gas is used as a fuel for furnaces to heat homes, stoves or ranges to cook food, water heaters to heat water, gas grills for outdoor cooking, fireplaces and many other appliances. It is efficient, reliable and has fewer emissions than other fossil fuels. A pipeline delivers this fuel. Pipelines can be various sizes in diameter and made of different materials. A leak in a pipe, connector or fixture can be hazardous.

Review with your students the safety tips about natural gas inside and outside a home, school or business. Discuss with students the importance of knowing and following the safety rules and tips below.

### Inside

1. Teach children how to use appliances safely and to recognize the smell, mercaptan, added to natural gas.
2. Keep flammable materials (paint, solvents, cloth, paper) away from appliances.
3. Provide proper ventilation in areas around furnaces, water heaters, dryers, ranges, etc.
4. Make sure all vents and chimneys are free from blockage.
5. If you smell the natural gas odor mercaptan in the house:
  - a. Tell an adult and leave the area at once.
  - b. Do not use the phone, light switches or flashlights.
  - c. Leave the doors open.
  - d. Call 911 and the natural gas company from a neighbor's house.
  - e. Stay away until the natural gas company says it is safe to return.
6. When lighting a natural gas appliance, always ignite the flame first, then turn on the natural gas.
7. Keep fire extinguishers in the vicinity of appliances with open flames.
8. Follow manufacturer's instructions for the installation, operation and maintenance of gas equipment and appliances.
9. Have routine maintenance performed on appliances to keep them clean and in proper working order.
10. Clean or change filters on furnaces and dryers regularly.
11. Check the temperature setting on the water heater. It should be set at 120 F.
12. Install a carbon monoxide (CO) detector in your home.

## Outside

1. Don't play near any natural gas equipment, including pipes and the meter.
2. Call 811 before digging in the yard to locate underground pipelines.
3. Never pull out or move marker flags that mark the location of underground pipelines.
4. Never use natural gas appliances intended for outdoor use indoors or in a garage.

## Procedure

1. After discussing the natural gas safety rules and tips, play Safety BINGO by giving each student a Safety BINGO card.
  - a. Using a pencil or crayon have students put a mark like an X over the word that answers the questions or completes the sentence.
  - b. If you want to reuse the cards, use marker pieces to cover the word(s).
2. Read the following phrases and have students find the word or phrase that matches the answer on their card. Continue until a student has a BINGO, a complete line vertical, horizontal or diagonal.
  - a. To play with three in a row, read three to four sentences or questions.

## Phrases

1. The smell that is added to natural gas is called \_\_\_\_\_. (mercaptan)
2. What number should you call before you dig in your yard? \_\_\_\_\_ (811)
3. Do not pull out \_\_\_\_\_ because they show the location of underground pipelines. (marker flags)
4. Natural gas is brought to your house or business by an \_\_\_\_\_. (underground pipeline)
5. If you suspect a natural gas leak, you should leave the area immediately and \_\_\_\_\_. (tell an adult)
6. Never play near or on any natural gas equipment, including pipes and \_\_\_\_\_. (meters)
7. Install a \_\_\_\_\_ detector in your home. (carbon monoxide)
8. Clean or change \_\_\_\_\_ on furnaces and dryers regularly. (filters)

## To Know and Do More

Have students make posters or slogans of a safety tip regarding natural gas and illustrate it with photos, drawings or diagrams. Have students write a creative story or poem that begins with "I thought there was a natural gas leak because..."

# Materials Needed:

- Student sheet, cut apart
- Marker pieces, pencil or crayon

# Curriculum Correlations

K-ESS3 - 3  
4-LS1 - 2  
4-ESS3 - 1

5-ESS3 - 1  
MS-LS1 - 8  
MS-ESS3 - 1

HS-ESS3 - 1

# Safety BINGO

## BINGO

carbon monoxide	marker flags	mercaptan
filters	tell an adult	underground pipeline
furnace	811	water heater

## BINGO

filters	underground pipeline	furnace
811	meters	equipment
carbon monoxide	marker flags	tell an adult

# BINGO

811	water heater	underground pipeline
equipment	filters	marker flags
mercaptan	furnace	meters

# BINGO

tell an adult	marker flags	underground pipeline
meters	mercaptan	equipment
water heater	carbon monoxide	furnace

# BINGO

811	underground pipeline	tell an adult
meters	mercaptan	marker flags
filters	equipment	furnace

# BINGO

marker flags	meters	underground pipeline
filters	tell an adult	carbon monoxide
811	furnace	equipment

# BINGO

equipment	underground pipeline	811
meters	mercaptan	tell an adult
furnace	marker flags	water heater

# BINGO

equipment	tell an adult	furnace
marker flags	811	mercaptan
meters	carbon monoxide	filters

# BINGO

water heater	mercaptan	marker flags
carbon monoxide	tell an adult	filters
underground pipeline	811	furnace

# BINGO

filters	water heater	carbon monoxide
marker flags	tell an adult	811
meters	equipment	mercaptan

# BINGO

meters	water heater	811
carbon monoxide	tell an adult	marker flags
equipment	furnace	filters

# BINGO

filters	mercaptan	811
water heater	furnace	underground pipeline
meters	tell an adult	marker flags

# BINGO

meters	filters	tell an adult
furnace	water heater	carbon monoxide
equipment	marker flags	811

# BINGO

underground pipeline	equipment	water heater
811	furnace	filters
carbon monoxide	meters	tell an adult

# BINGO

marker flags	underground pipeline	811
meters	filters	tell an adult
furnace	carbon monoxide	mercaptan

# BINGO

tell an adult	equipment	furnace
meters	811	filters
carbon monoxide	underground pipeline	marker flags

# BINGO

filters	furnace	water heater
tell an adult	carbon monoxide	mercaptan
underground pipeline	meters	marker flags

# BINGO

equipment	tell an adult	underground pipeline
811	water heater	furnace
carbon monoxide	filters	mercaptan



# BINGO

underground pipeline	811	carbon monoxide
filters	marker flags	tell an adult
meters	water heater	equipment

# BINGO

filters	underground pipeline	furnace
811	equipment	meters
marker flags	tell an adult	mercaptan

# BINGO

marker flags	furnace	underground pipeline
filters	mercaptan	811
meters	equipment	carbon monoxide

# BINGO

underground pipeline	furnace	tell an adult
meters	carbon monoxide	equipment
water heater	filters	811

# BINGO

tell an adult	furnace	underground pipeline
carbon monoxide	equipment	water heater
meters	marker flags	811

# BINGO

filters	carbon monoxide	meters
underground pipeline	water heater	furnace
811	marker flags	equipment

# BINGO

furnace	811	mercaptan
filters	underground pipeline	meters
tell an adult	water heater	equipment

# BINGO

filters	tell an adult	marker flags
underground pipeline	meters	equipment
carbon monoxide	water heater	furnace