Safe at Home
Gas and Pipeline Safety

Pipeline Safety Trust Conference
November 2017
A Winning Partnership!
All Members in the Safe at Home Partnership Benefit.

- PHMSA
- Pipeline Operators
- School Administrators
- Teachers
- Elementary Students
- Parents & the School
- Community

“My class enjoyed Safe at Home, especially “What’s Wrong with this Picture”. This activity gave students the ability to reinforce what they learned. I received positive feedback from parents about how excited their child was to point out the pipelines they saw in the community. The students also reminded their parents to call 811 before they dig. You know the program is a hit when students repeat the lesson to their parents, and parents share that lesson with you!”

~ Susan Nash, Bridge Creek Elementary, Blanchard, OK
Safe at Home / Safe at School Program

Developed by Enterprise for Education in 2006 in response to PHMSA and the American Petroleum Institute's recommended practice (RP) 1162

Student Booklet

Classroom Activity Kit

Faculty Booklet
Teachers Love the Safe at Home Program:

- Provides teacher friendly materials focused on important science content while highly engaging students.
- Introduces students to extremely valuable pipeline and home gas appliance safe practices.
- Engages parents in classroom activities.
- Includes detailed lesson plans, materials for student activities, and website support.
- Recognizes teachers through stipends and award programs.
- Recognizes students with SAH certificates, the 811 wristband and the Pipeline Pizza Party Drawing.
Ten years of Safe at Home delivering pipeline safety to communities:

29 States, 433 Teachers
Ten Year Totals: 515,144 Students & Households
“We are pleased to note that our Safe at Home Gas and Pipeline Safety Program is in its 11th year of providing science and pipeline safety information to 4th and 5th grade students, some of whom are now pipeline-safety informed young adults in their early twenties.”

~ Alan Burks,
Publisher of Safe at Home/Safe at School
President of Enterprise for Education
Pre- and Post-tests:
the key SAH source of teacher feedback and sponsor documentation for PHMSA compliance

| Name: ___________________________ | Date: ____________
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**Natural Gas & Pipeline Safety Questions**

1. What is natural gas? (Circle one)
   - a. A type of gasoline
   - b. A solid
   - c. A fuel that occurs naturally in the earth

2. How is coal formed? (Put in order using 1 for last step and 4 for last step)
   - a. Over time soil covers layers of dead plants and animals, burying them.
   - b. Plants collect and store the sun’s energy through photosynthesis.
   - c. Heat and pressure in the ground convert the energy stored in the plant and animal tissues to coal.
   - d. Animals eat some of the plants. Eventually plants and animals die.

3. Which of the following is NOT a true statement about the formation of crude oil and natural gas? (Circle one)
   - a. Formed from tiny plants and animals that lived in the ocean.
   - b. Stored energy that originally came from Earth to the sun.
   - c. Changed by heat and pressure when deeply buried.
   - d. Made by humans in laboratories.

4. Identify the states of matter. (Write solid, liquid or gas in the blank spaces)
   - a. Ice cube
   - b. Water in a drinking glass
   - c. Natural Gas
   - d. Carbon Monoxide

5. What are the three ingredients required for combustion? (Circle three)
   - a. Fluid
   - b. Sunlight
   - c. Oxygen
   - d. Water
   - e. Heat

6. Which of the following are true statements about the properties of a gas? (Circle two)
   - a. Takes the shape of whatever you put it in
   - b. Has a definite volume
   - c. Flows
   - d. Always has an odor
   - e. Always has a color

7. Which word best describes the term “viscosity”? (Circle one)
   - a. Smelly
   - b. Runny
   - c. Bright
   - d. Hard

8. How does Natural Gas get from the well to your home? (Circle one)
   - a. Trucks
   - b. Planes
   - c. Underground Pipelines
   - d. Overhead Power lines

9. Oil refineries send their products through underground pipelines to:
   - a. Chemical Plants
   - b. Electrical Power Plants
   - c. Airports
   - d. All of the above

10. What does natural gas in your home smell like? (Circle one)
    - a. Bubble Gum
    - b. Very Strong Mint
    - c. Toilet Cleaner
    - d. It is odorless

11. Before you or any adults dig anywhere around your house or in your community, you should always? (Circle one)
    - a. Call 811
    - b. Tell a neighbor
    - c. Post a sign in front of your house
    - d. Take a photo of the area where you plan to dig

12. Which of the following is a potential source of heat that could cause combustion around a natural gas leak? (Circle all that apply)
    - a. Match
    - b. Phone
    - c. Light switch
    - d. Flashlight
    - e. Cell Phone

13. Which of the following is NOT a sign of an outdoor pipeline leak? (Circle one)
    - a. A hissing sound near a pipeline
    - b. A pool of liquid in or around a pipeline
    - c. A large patch of dead grass near a pipeline that is surrounded by live grass
    - d. A cloud of vapor or mist that is not usually present
    - e. The smell of heavy fuel gas

14. Pipeline leaks rarely happen, but if you recognize a pipeline leak, what should you do?
    - a. Throw rocks at the leak to seal it
    - b. Call 911 and wait for help to show them where the leak is
    - c. Walk away from the area and call 911 from a safe distance
    - d. Look for the leak

15. What is the purpose of calling 811? (Circle one)
    - a. To notify neighbors you will be digging
    - b. To shut-off gas in your neighborhood
    - c. To mark the location of underground pipelines and other utility lines so you can safely avoid them when digging
    - d. To order a pizza for lunch

Pre-Post-test. Rev. 8-11-09
Compliance Data from Teacher Feedback

Safe at Home
Gas and Pipeline Safety

It’s easy to turn in your data and receive your $150 stipend!

Your data is important to the sponsors, so they know the impact of the Safe at Home Program!

You have now used the program – hopefully loved it – and would like to provide feedback and class results. To receive your $150 award click here, select your school and classroom, and then submit your information online. It is easy and fast.

What you need:
- Pre-Test Data
- Post-Test Data
- Tally of Signed Home Safety Checklist

Register Now  -or-  Login
Safety: Pre & Post Test Results

Pre Test Results

Post Test Results

49% 81%
Safe at Home

Gas and Pipeline Safety Checklist

Inside

☑ Yes ☐ No
Do the younger children in your house clearly understand they should not use gas-burning stoves, oven or fireplaces, or play with their controls?

☑ Yes ☐ No
If you smell the strong odor of the chemical added to natural gas in your home, do you know you should exit your home immediately?

☐ Yes ☐ No
If you think that there might be a gas leak, do you know that you should not use anything that could cause an electrical spark, such as a light switch, match, lamp, telephone, cell phone, flashlight, garage-door opener, or your car's ignition switch?

☐ Yes ☐ No
Are all the gas appliances in your house burning as a solid blue flame?

☐ Yes ☐ No
Do you have audible detectors installed in house to alert your family if carbon monoxide begins to accumulate?

☐ Yes ☐ No
Do all the adults in your home know where your natural gas shut-off valve is located and how to turn the gas off?

☐ Yes ☐ No
Do all the adults know that they should have a professional re-light pilot lights if they turn the gas back on?

☐ Yes ☐ No
Do you know that you should not store or hang anything next to or close to your gas-burning appliances?

Outside

☐ Yes ☐ No
Do you and the adults in your home understand why it is important to know what's below and call 811 before they dig around your house or in your community?

☐ Yes ☐ No
Do you know which pipelines are near you and understand their potential hazards?

☐ Yes ☐ No
Do you know the different signs of a pipeline leak and what to do?

☐ Yes ☐ No
Do you know that you should tell an adult to report anything unusual to the pipeline company?

☐ Yes ☐ No
Do you know how to respond quickly in the event of a hazardous situation or a pipeline accident?

☐ Yes ☐ No
Are you able to recognize pipeline signage and NEVER touch, move or remove those signs.

Adult Signature ___________________________ Date: ____________

Student Signature ___________________________ Date: ____________

La versión en Español está del otro lado.
Parents and School Communities Praise Safe at Home:

✔ Cheer the enthusiasm their child has for the Safe at Home classroom experiences.

✔ Appreciate making their home safer as their child leads them through Home Gas and Pipeline Safety Checklist.

✔ Value the knowledge gained about pipeline right of ways and safe practices around gas appliances.

✔ Recognize that Safe at Home makes the local community safer.
“The students absolutely love the booklets and experiments. I brought up to our campus safety committee that this needed to be a school wide program, not only for students but teachers and staff. The pipeline is right behind our playground and we do not have safety guidelines in place in case of a disaster. We plan to address it in the fall.”

~ Field Store Elementary, Waller, TX
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