

Topic: Natural Gas Safety

Goal of Lesson:

1. Students will gain an understanding of different energy sources and how to be safe around them.
2. Students will share the safety information with their families and friends.

Materials:

For the Lesson: Lesson Plan, “Natural Gas Safety” sheet, “Natural Gas: Your Invisible Friend” Energy Explorer booklet.

For the Video: Laptop (bring your own or ask teacher if they have one on hand). Verify there is wi-fi available, and if not, copy appropriate video(s) onto a thumb drive.

For the Demo: PPE (safety glasses, gloves, hard hat, vest, flashlight) and hand tools if possible.

For the Student: Student Giveaway Bag which includes Energy Explorer booklet, bookmark, mercaptan scratch and sniff card, and pencil. (please hand out at the end of class).

Procedures:	Suggested time:
<p>Introduce yourself (and each team member) to the class.</p> <ul style="list-style-type: none"> • Include a short description of your position at National Grid. • Give a brief explanation that the purpose of your visit is to raise their awareness about natural gas and to take home what they’ve learned about gas safety and share it with their families and friends. 	<p>5 minutes</p>
<p>Ask students how many of them have stoves at home that use a flame to cook. Refer to “Natural Gas Safety” sheet for reference.</p> <ul style="list-style-type: none"> • Talk about how natural gas is used in the home to cook, provide heat and maybe even dry clothes. • Refer to Fact Sheet: form questions and ask for class participation to engage students • Show any or all of the videos: AGA gas safety video: https://docs.google.com/file/d/0B91-va4jPUdxNWltejYQWxiVTg/edit?pli=1 and Energy Explorer videos: http://ngridenergyworld.com/teachers/videos/video.html “Episode 6: Natural Gas Basics” and “Episode 7: Gas Pipeline Safety” • Use mercaptan scratch and sniff card as a prop to introduce the smell of gas and have a discussion of what to do if you smell gas. Only use one card and let them pass it around. They will each have one to take home in their bags to experience with their families. 	<p>12 minutes</p>
<p>Carbon Monoxide:</p> <ul style="list-style-type: none"> • Ask students how many of them have a smoke detector at home. Explain importance and encourage them to go home and ask parents to place them in the home/apartment. • Ask them if they have a carbon monoxide detector at home. Explain importance and encourage them to go home and ask parents to place them in the home/apartment. • Explain carbon monoxide (Use “Natural Gas Safety” sheet for quick reference) 	

Topic: Natural Gas Safety *continued*

Procedures <i>continued</i>:	Suggested time:
Demonstration: <ul style="list-style-type: none">• Field team member to demonstrate each item of PPE and what it is used for. Ask students to come up and try on each piece. If any tools, demonstrate those and their purpose.	15-20 minutes
Conclusion: <ul style="list-style-type: none">• Ask students if they can repeat back what they learned.• Ask students if they have any questions.• Let students know that you are providing a goodie bag with additional safety materials to take home to share with their parents.• Remind them how important it is to be safe and to keep the people they love safe too!	15 minutes