

Detecting Natural Gas

Natural Gas Safety Activities Book



DeNova Detect®
Smarter Gas Leak Safety



Let's Learn with DeeDee!

DeeDee is a Gas Safety Detective, here to help you learn how to stay safe around natural gas. She believes that every kid can be a safety hero.

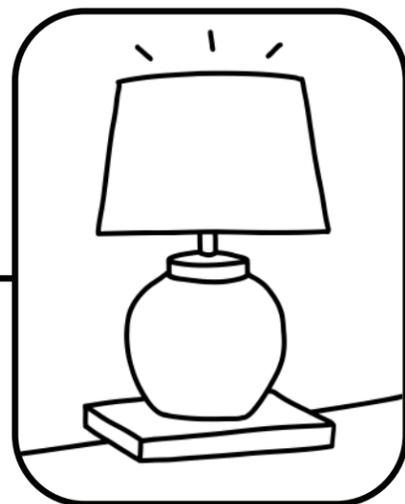
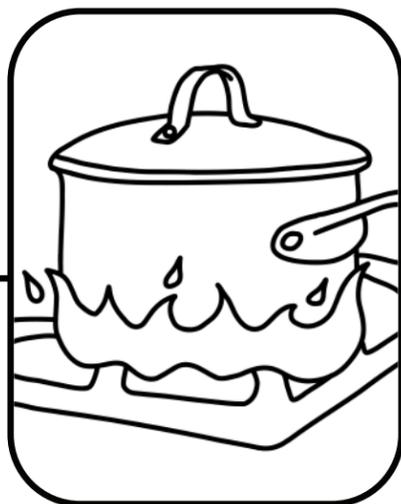
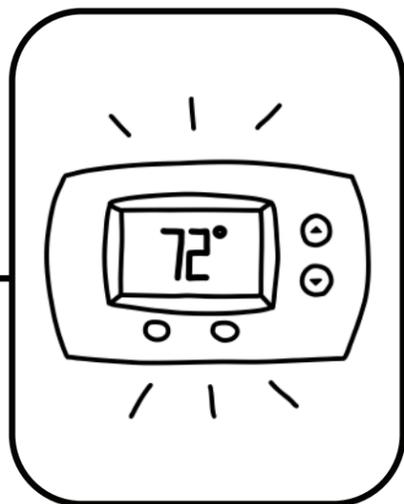
She'll share tips, clues, and fun activities to teach you how to spot a gas leak and what to do in an emergency. Ready to become a Natural Gas Safety Detective like DeeDee?

Let's get started!

What is Natural Gas?

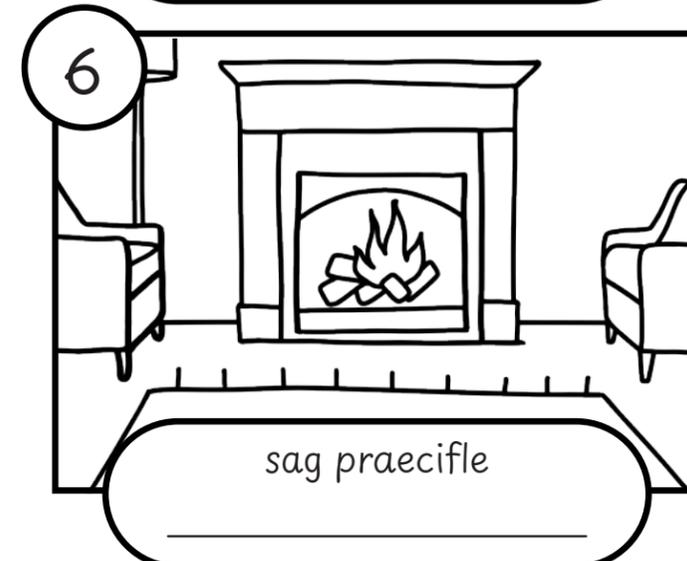
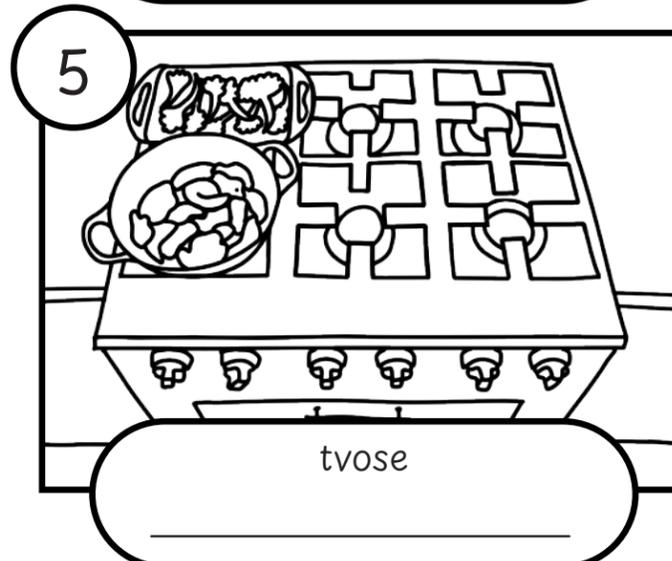
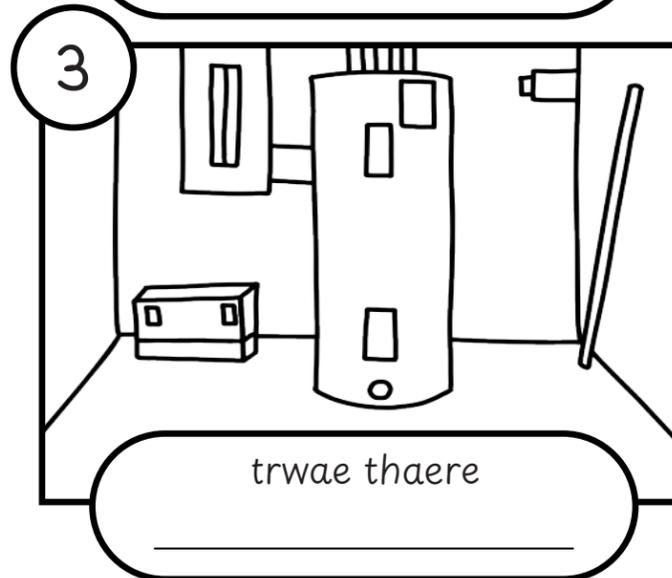
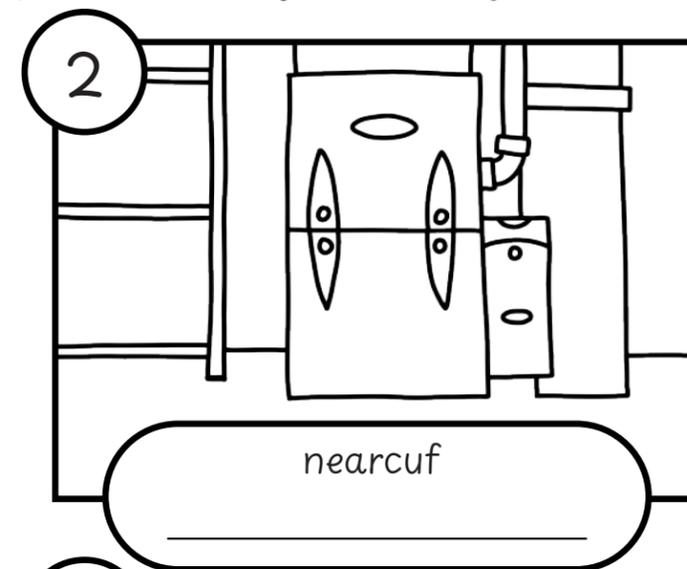
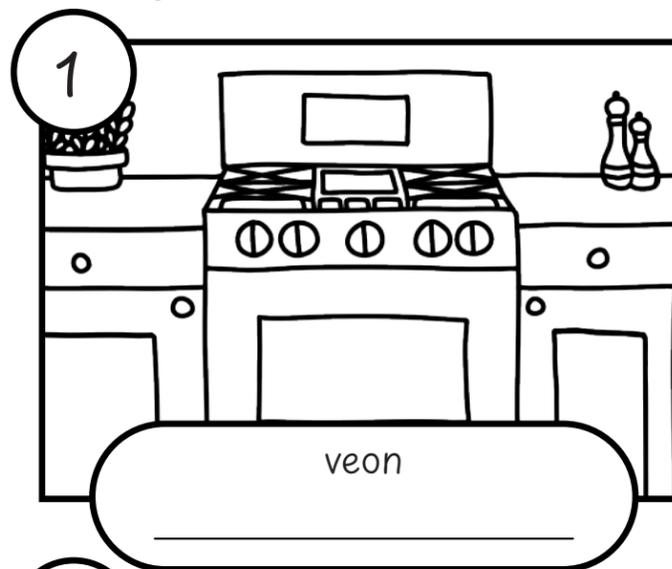
Natural gas is a type of fuel that comes from deep underground. It's made from the remains of plants and animals that lived a very long time ago. It is a mix of different gases, but the one that makes up a majority of natural gas is **methane**.

Natural gas is pulled from the earth, processed at a plant, and delivered to buildings and homes through underground pipelines. **People use natural gas to heat their homes, cook food, and make electricity**, powering many things we use every day!



Unscramble!

Can you unscramble these natural gas appliances that may be found in your home?



Be a Gas Leak Detective!

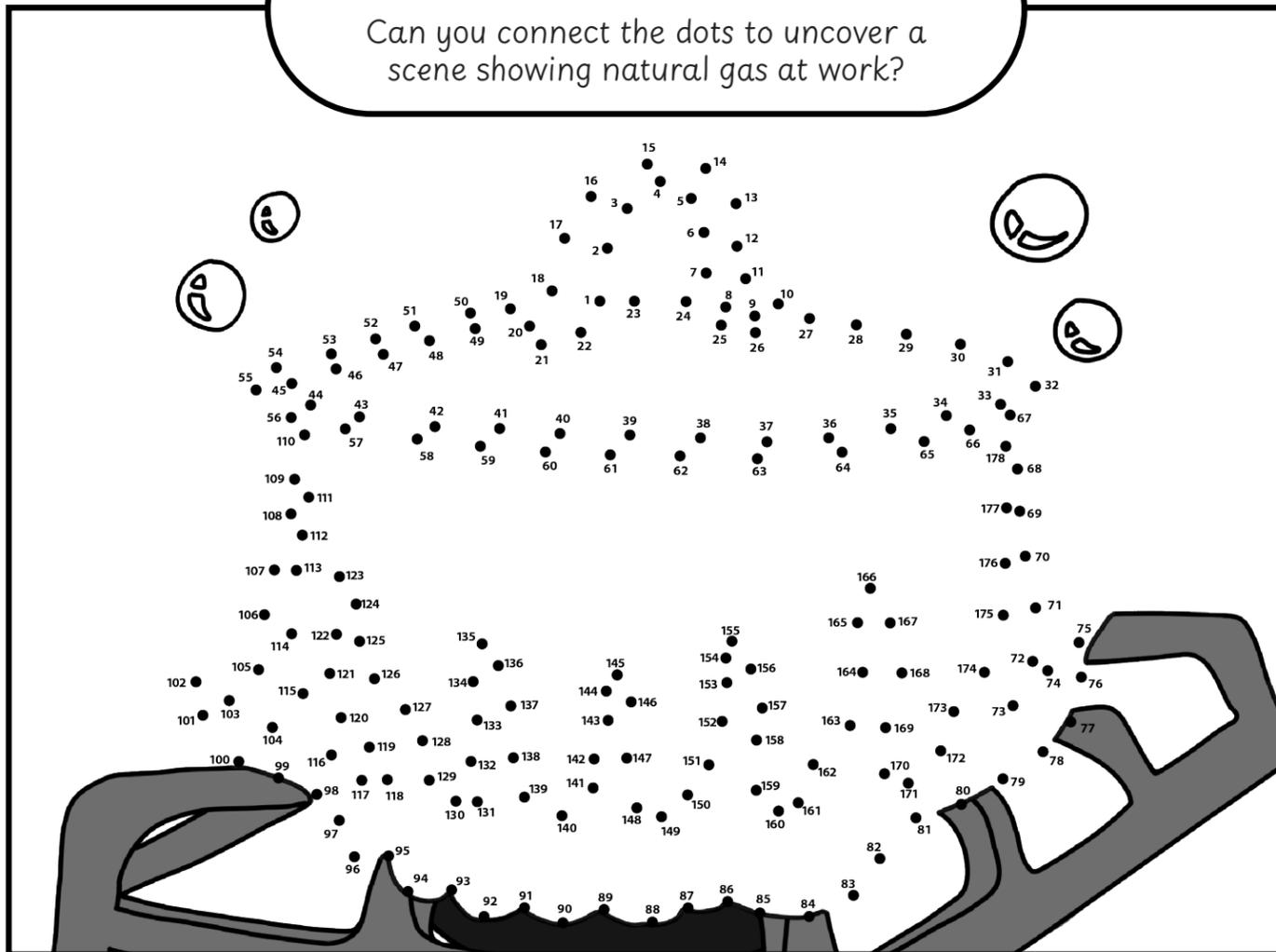
Natural gas is very useful and safe when used the right way. But sometimes accidents can happen, like gas leaks. Gas leaks can be very dangerous because they can cause a fire or explosion. That's why we need to pay attention to these **common signs of a gas leak**:

- Natural gas alarm sounding
- Dust blowing close by gas appliances
- Bubbles of liquid around connections or pipes on gas appliances
- Hissing sounds near gas appliances
- Rotten egg smell

If you see, hear, or smell one or more of the signs, be sure to tell a grown-up right away and go outside where it is safe!

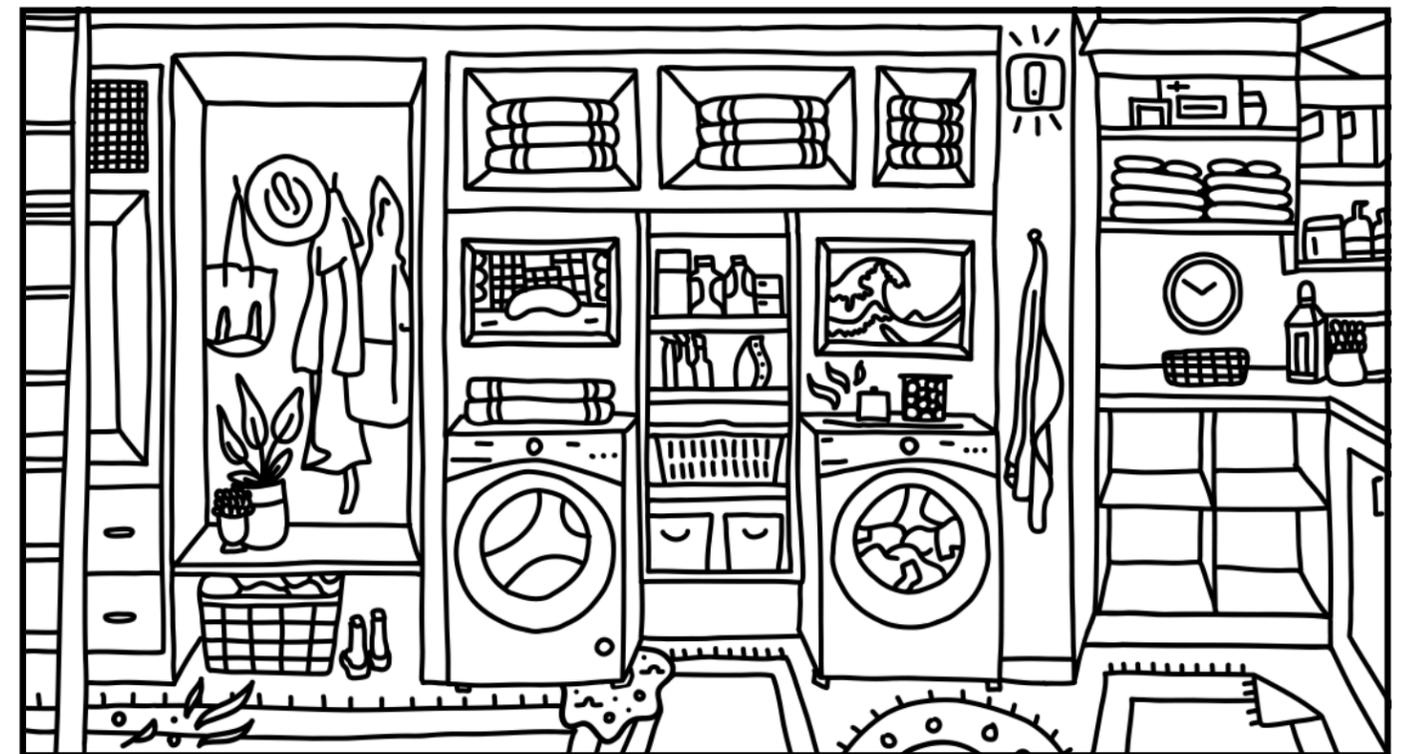
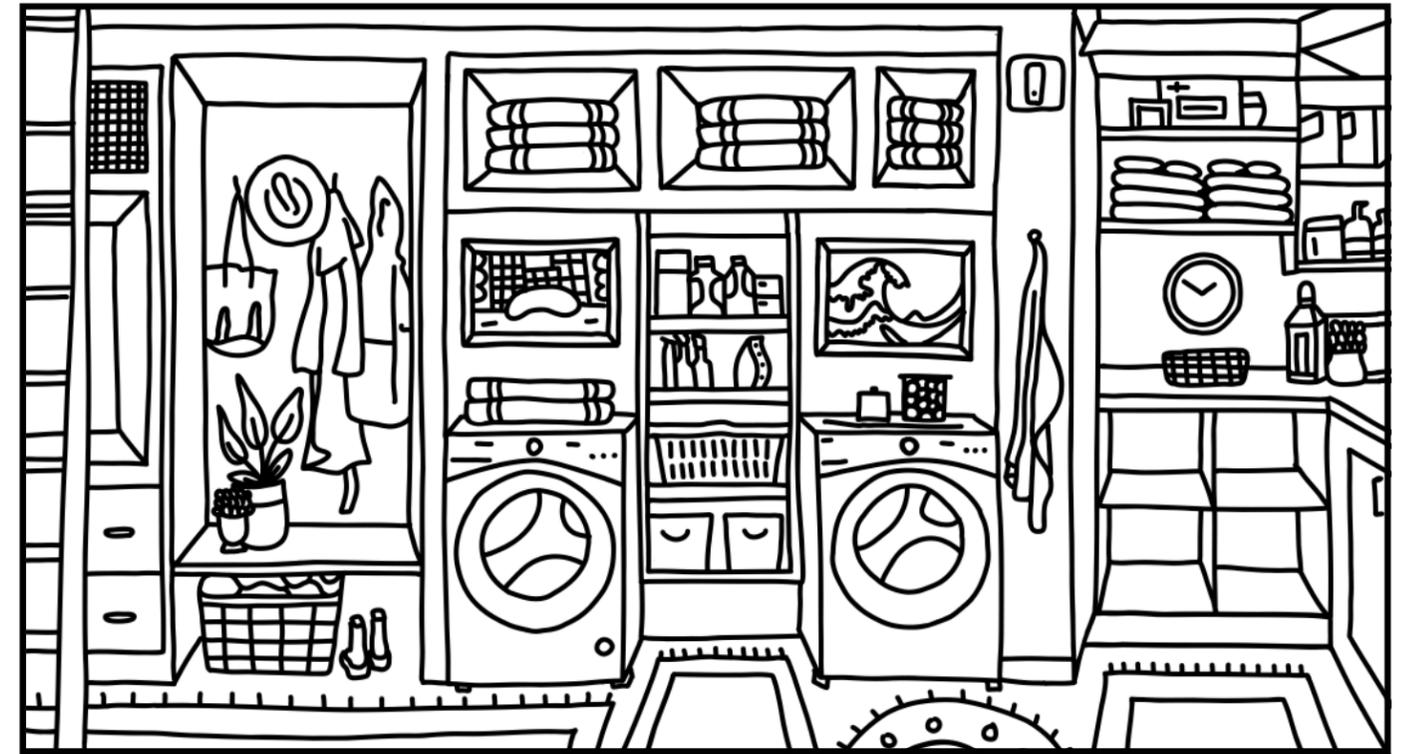
Connect the Dots!

Can you connect the dots to uncover a scene showing natural gas at work?



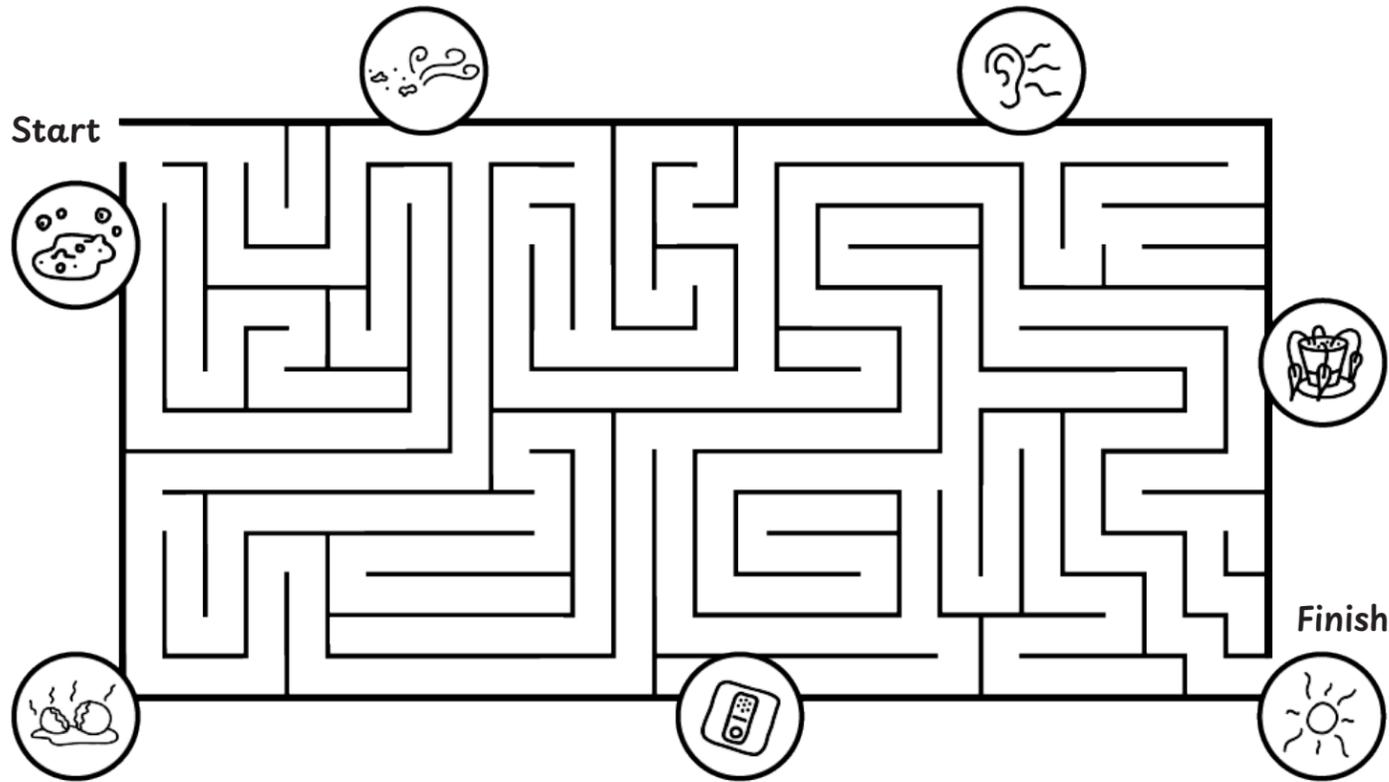
Spot the Difference!

Can you circle the 6 differences between the photos below?



Safety Isn't a Maze When You Have a Plan!

Talk with your family so you know exactly where to go if there's a gas leak emergency.



What do Natural Gas Alarms do?

Natural gas alarms detect gas leaks. Similar to smoke alarms that alert you to a fire or carbon monoxide alarms, **natural gas alarms are an essential safety piece to a home that uses natural gas.**

Natural gas is lighter than air, so if there is a gas leak, the natural gas will rise towards the ceiling. That is why **it is important to place a natural gas alarm near the ceiling**, so it can detect gas early. Gas alarms should be placed 12 inches from the ceiling and between 3-10 feet horizontally from a gas appliance.



Word Search!

Can you find all 12 natural gas safety words in the puzzle below?



Smell
Egg
Hiss

Whistle
Bubbles
Plants

Dirt
Noise
Leak

Gas
Odor
Alarm



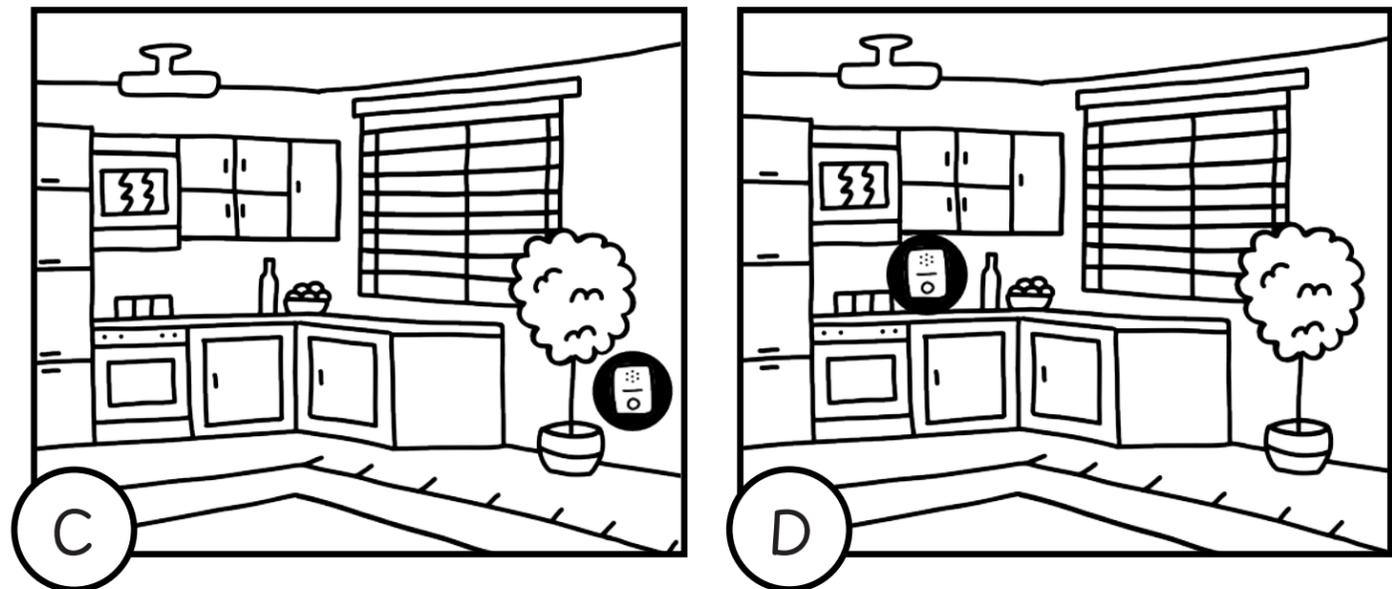
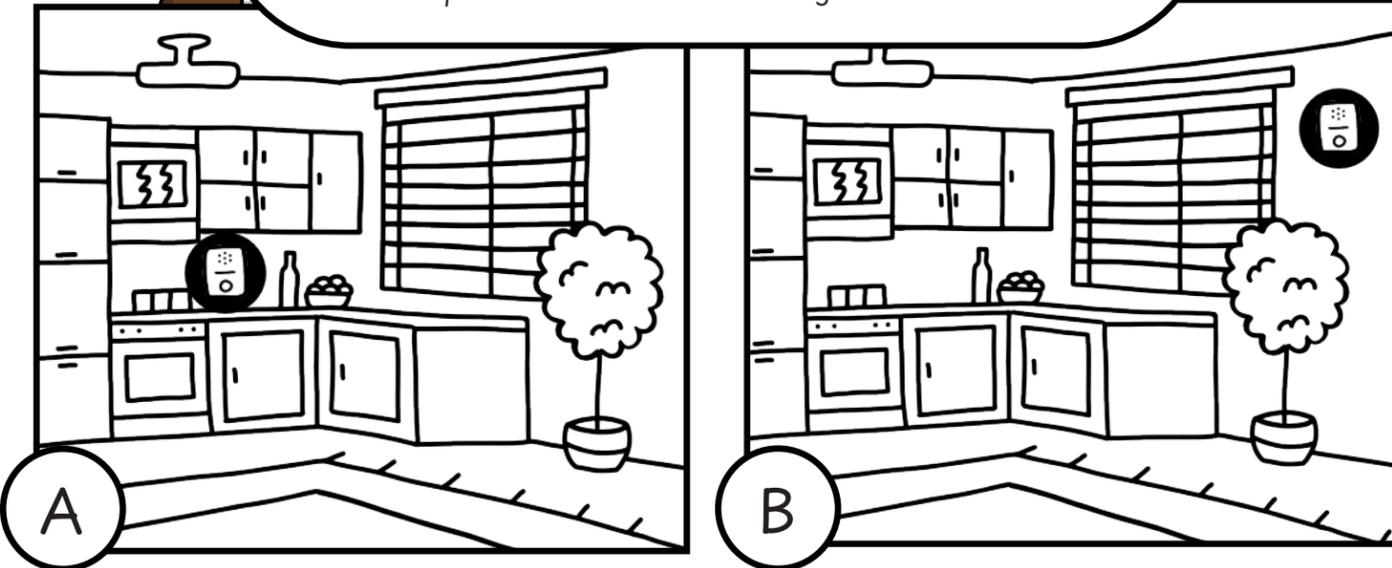
Did You Know?

Because natural gas itself has no color or smell, companies add **mercaptan**, which is a chemical, to give gas its "rotten egg" odor.

While that smell can help warn us about a gas leak, it's not enough. We also need a natural gas alarm to help keep us safe, just in case we can't smell the gas.

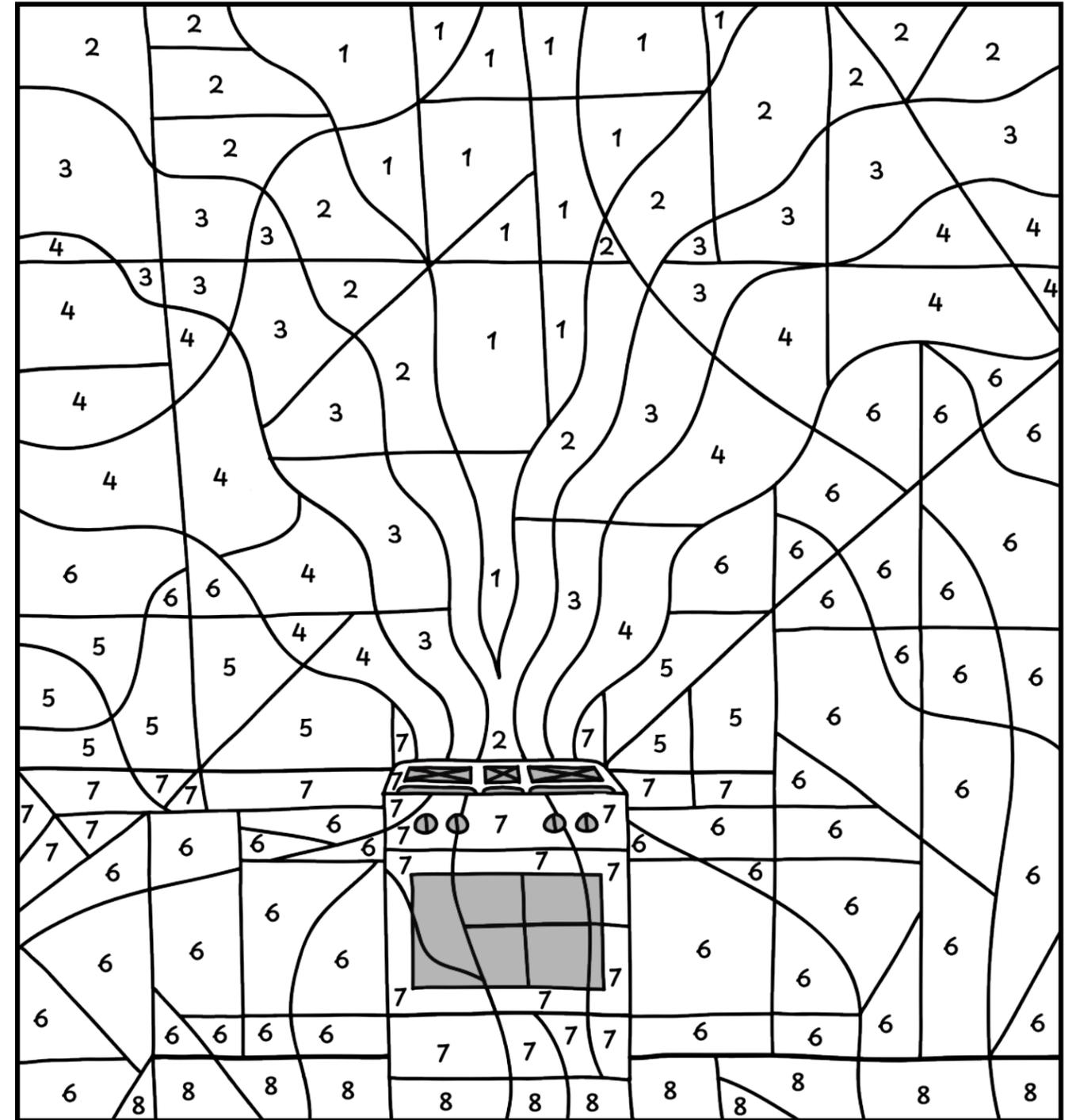
Where Should the Alarm Go?

Can you circle the photo with the correct placement of a natural gas alarm?



Color by Number!

Use the color key below to color the picture and reveal the natural gas image!



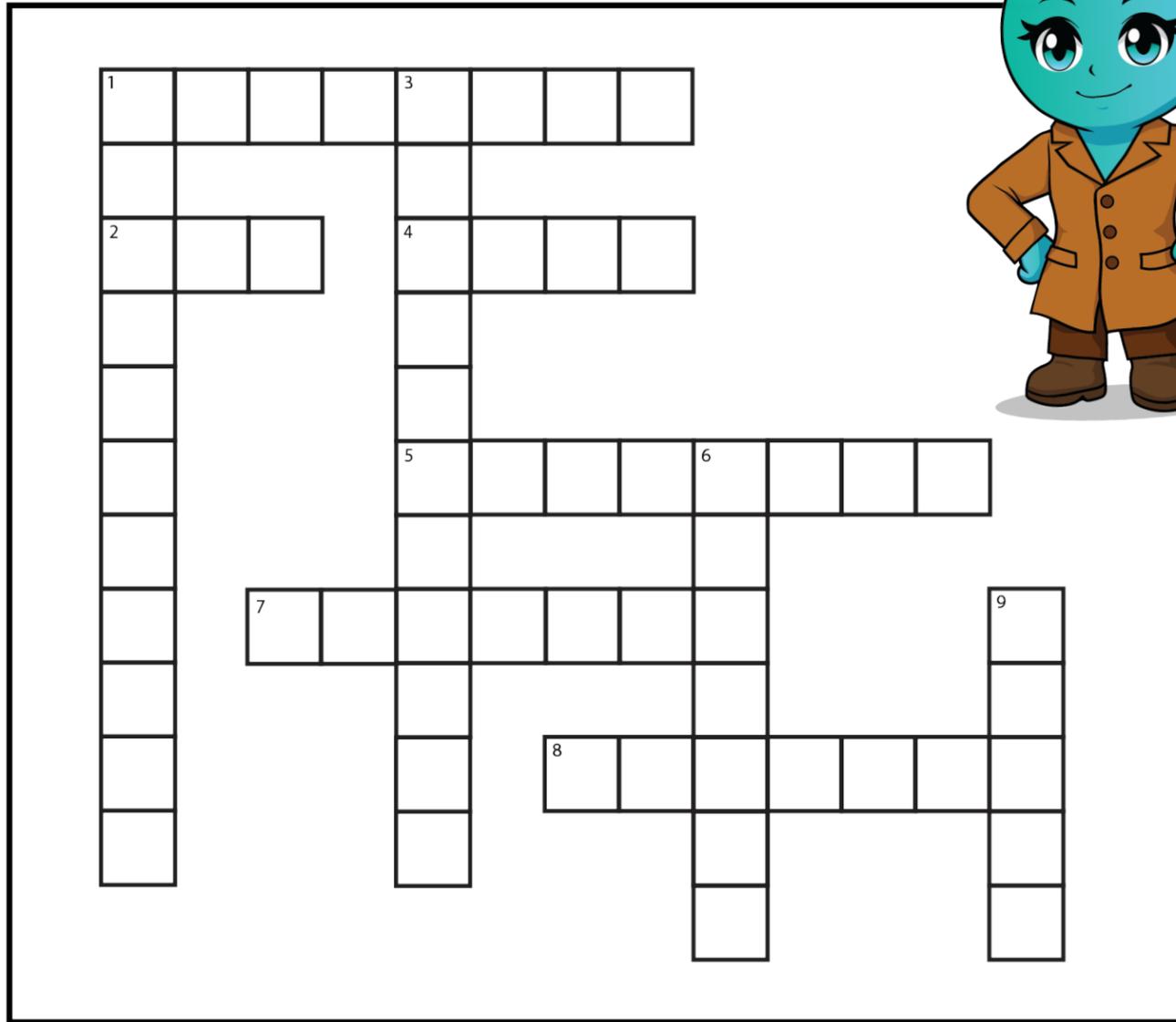
- 1 - red | 2 - orange | 3 - yellow | 4 - green
- 5 - light blue | 6 - dark blue | 7 - gray | 8 - brown



DeeDee's Tip: Natural gas rises, so it collects near the ceiling. Look for red and orange areas to see where it builds up!

Crossword!

Can you fill in all the words using the clues?



Across

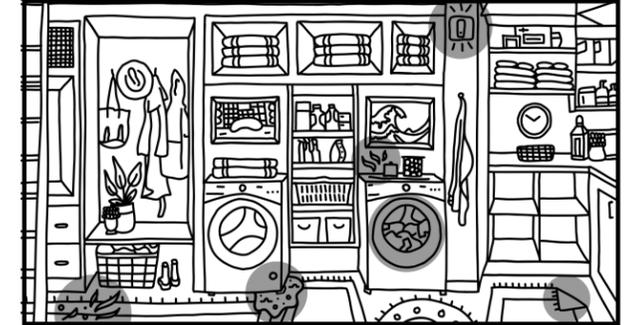
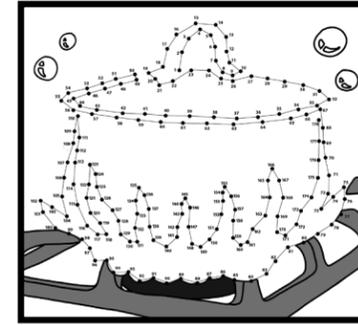
1. If a gas alarm goes off, _____.
2. Mercaptan gives gas its "rotten ____" odor.
4. A common sign of a gas leak is _____ blowing by gas appliances.
5. A device that can detect a leak _____.
7. Natural gas can be used for this _____ in the kitchen.
8. Makes up a majority of natural gas.

Down

1. People use natural gas to heat their homes, cook, and make _____.
3. Natural gas is a type of fuel that comes from deep _____.
6. Natural gas is _____ than air.
9. Natural gas itself has no color or _____.

Check Your Answers!

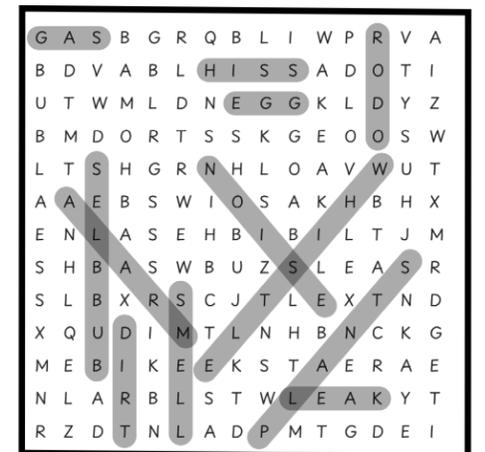
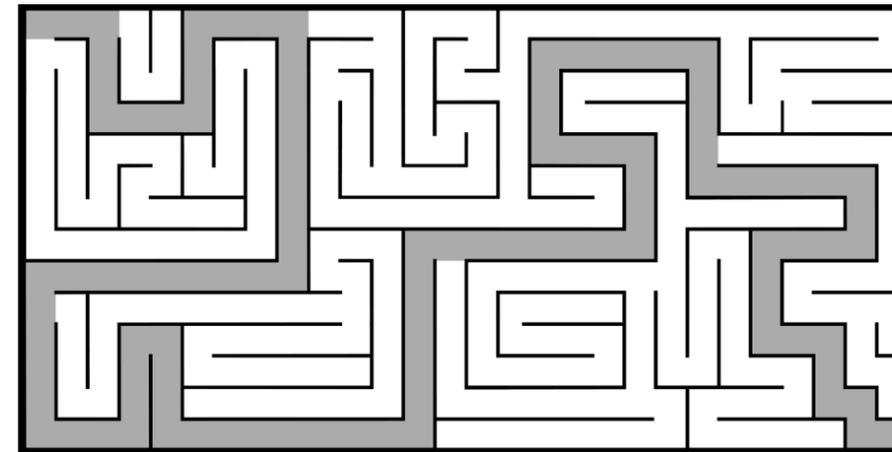
1. veon: oven
2. nearcuf: furnace
3. trwae thaere: water heater
4. stloche ryder: clothes dryer
5. tvose: stove
6. sag praecifle: gas fireplace



P3. Unscramble

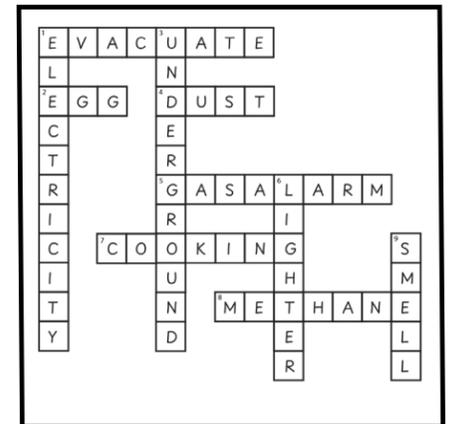
P4. Connect the Dots

P5. Spot the Difference



P6. Maze Puzzle

P7. Word Search



P8. Place the Alarm - B

P9. Color by Number

P10. Crossword

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