

# GASES

CHANGES IN MATTER

# SCIENCE!



*2nd Grade  
Ms. Godoy*

# GASES

CHANGES IN MATTER



## WHAT IS A GAS?

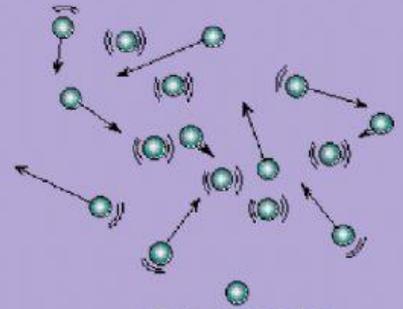
### Question

Is it possible to produce a gas?

### Research

Gases are made of particles that are well separated. They cannot hold their shape.

Carbon dioxide (chemical formula  $\text{CO}_2$ ) is an acidic colorless gas.



Gas molecules

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**LIVEWORKSHEETS**

# GASES

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### Hypothesis

Do you think we can produce a gas, with the water and the alka seltzer, able to inflate the balloon?

1. **Yes**, I think we can produce a gas, with the water and the alka seltzers, able to inflate the balloon.
2. **No**, I think it is impossible to produce a gas, with the water and the alka seltzers, able to inflate the balloon.



# GASES

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### Materials

Plastic Water Bottle  
Water  
Balloon  
Alka-Seltzer tablets



### Procedures

#### Part I

1. Fill in half of the bottle with water.
2. Drop in an alka-seltzer tablet.
3. Observe what happens.

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Observations

Is this a Mixture or a Solution?

It is a \_\_\_\_\_.

What do you see?

Draw what you see in your science notebook and insert the picture here.



Can you hear a fizzing sound?

What is that?

It is a \_\_\_\_\_ called Carbon Dioxide.



# GASES

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### Procedures

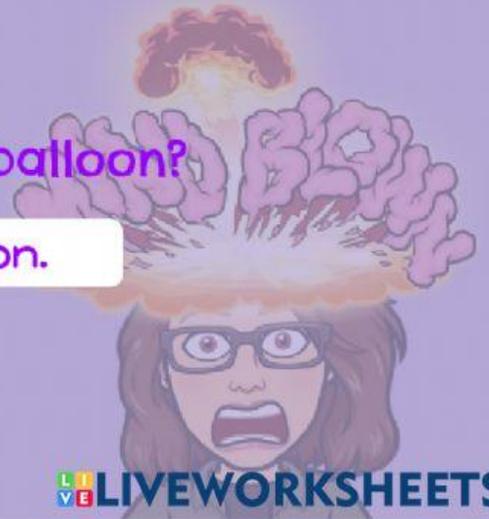
#### Part II

1. Drop in 1 alka-seltzer tablet in the water.
2. Cover the top of the bottle with the balloon.
3. Observe what happens.
4. Take a picture.

### Observations

Does the carbon dioxide **inflate** the balloon?

The Carbon Dioxide \_\_\_\_\_ the balloon.



# GASES

## CHANGES IN MATTER

### Procedures

#### Part III

1. Drop in 2 alka-seltzer tablets in the water.
2. Cover the top of the bottle with the balloon.
3. Observe what happens.
4. Take a picture.

### Observations

What happens now?

Does the balloon get bigger or smaller than the first one?

The balloon gets \_\_\_\_\_.

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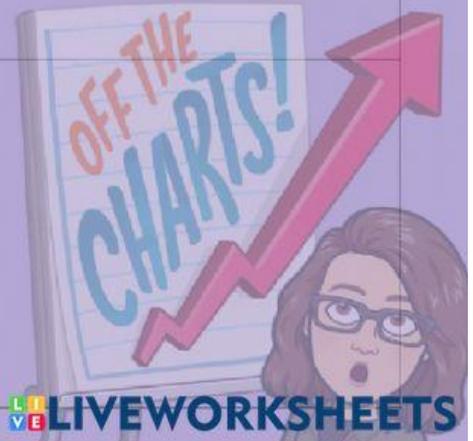
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# GASES

Data and Results

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Balloon	# of Alka Seltzer tablets	Size (Insert Picture)
Balloon #1		
Balloon #2		



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# GASES

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### Conclusions

When you mix some liquids and solids together, the result can be to produce a gas, like the carbon dioxide.

My Hypothesis was \_\_\_\_\_

Drag and drop the appropriate answer.

Correct

Incorrect



HYPOTHESIS  
LIVEWORKSHEETS

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