



Comparing Gases



Maya wants to find the fizziest drink to serve to her friends at her party. You will set up a comparative investigation to find out which fizzy drink has the most carbon dioxide in it, as this is likely to be the fizziest drink. You will weigh each fizzy drink, then shake it until it is flat and weigh it again. The difference between the two weights will tell you how much carbon dioxide is in each drink.

Have a look at the different drinks. Which one do you predict has the most carbon dioxide in it?

How can you make sure your investigation is reliable? Underline the correct option in each sentence.

Use the same amount/different amounts of each fizzy drink.

Shake each drink for the same length/different lengths of time.

Use the same/different weighing scales each time.

Carry out the investigation and complete the table of results below.

Name of drink:	Weight when fizzy:	Weight when flat:	Weight of carbon dioxide (the difference between the two weights):

Look at your results and come to a conclusion. Which fizzy drink has the most carbon dioxide in? Which drink should Maya serve to her friends at her party?



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Have a look at the different drinks. Which one do you predict has the most carbon dioxide in it and why?

How will you know when the fizzy drinks are flat? Think about the bubbles you can see.

How can you make sure your investigation is reliable? Think about what you need to keep the same every time.

Carry out the investigation and complete the table of results below.

Name of drink:	Weight when fizzy:	Weight when flat:	Weight of carbon dioxide (the difference between the two weights):

Look at your results and come to a conclusion. Which fizzy drink has the most carbon dioxide in? Which drink should Maya serve to her friends at her party? Was your prediction accurate?



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Have a look at the different drinks. Which one do you predict has the most carbon dioxide in it and why?

How will you know when the fizzy drinks are flat? Think about the bubbles you can see.

Will you need to shake each fizzy drink for the same amount of time?

How will you make sure your investigation is reliable?

Carry out the investigation and complete the table of results below.

Name of drink:	Weight when fizzy:	Weight when flat:	Weight of carbon dioxide (the difference between the two weights):

Look at your results and come to a conclusion. Which fizzy drink has the most carbon dioxide in? Which drink should Maya serve to her friends at her party? Was your prediction accurate?