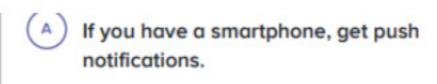
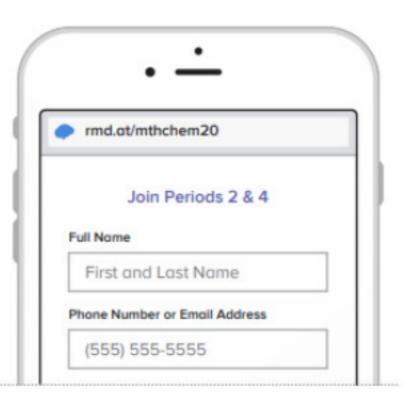
New Remind - per 2



On your iPhone or Android phone, open your web browser and go to the following link:

rmd.at/mthchem20

Follow the instructions to sign up for Remind. You'll be prompted to download the mobile app.



B If you don't have a smartphone, get text notifications.

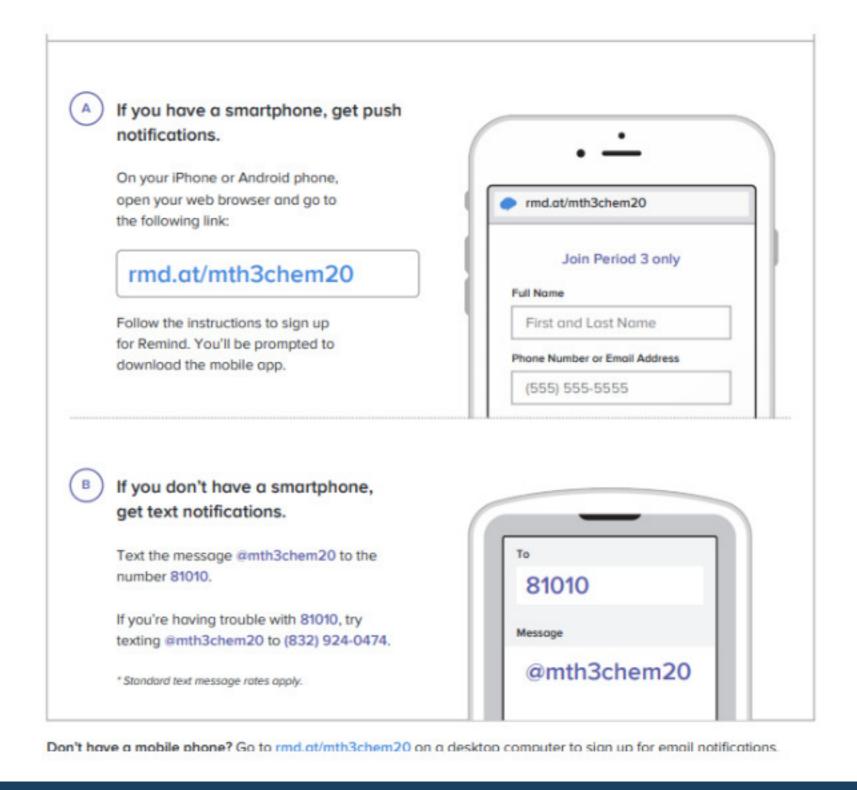
Text the message @mthchem20 to the number 81010.

If you're having trouble with 81010, try texting @mthchem20 to (832) 924-0474.

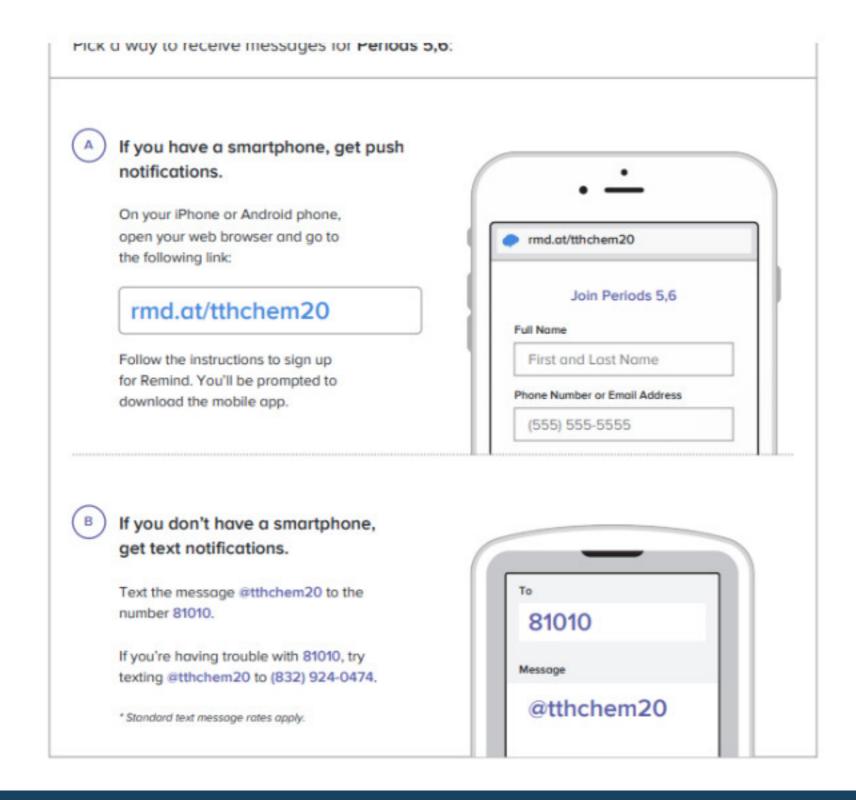
* Standard text message rates apply.



New Remind



New Remind-per

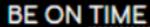


What you need out for class

エ ニ ニ ニ・・つ



Virtual Meeting





Wake up early enough to get ready

Eat breakfast

Log on a few minutes early Use your real name on the screen

BE PREPARED

Be in a QUIET location

OREPARED Technology should be charged



No distractions including (unless you are using your

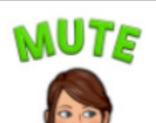
phone to meet)

BE PRESENTABLE

MUTE YOURSELF

Keep your mic on MUTE unless vou have been called on

Use headphones if you have them



Wear appropriate clothing

Be sure your camera is on

Sit up straight and be in camera view for attendance



CHAT RESPONSIBLY



Raise your hand to speak

Type your question in the chat box

Stay on topic (no side conversation)

PARTICIPATE





Stay focused

Ask and answer questions

Listen and show respect to peers



Experimental Design

What is a variable?

Independent variable

 An independent variable is the variable you have control over, what you can choose and manipulate. It is usually what you think will affect the dependent variable.

WHAT YOU CHANGE?

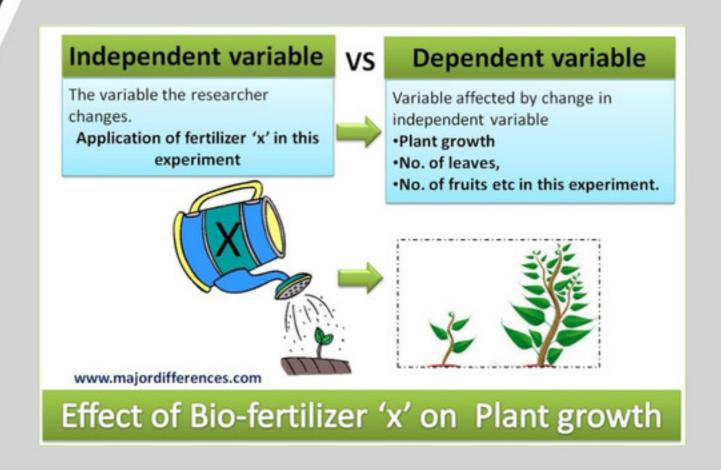
Dependent variable

 A dependent variable is what you measure in the experiment and what is affected during the experiment. The dependent variable responds to the independent variable.

WHAT IS MEASURED?

Independent vs. Dependent

The independent variable causes the dependent variable to change.





- A scientist studies the impact of withholding affection on rats. The independent variable is the amount of affection. The dependent variable is the reaction of the rats.
- A scientist studies how many days' people can eat soup until they get sick.
 The independent variable is the number of days of consuming soup. The dependent variable is the onset of illness.

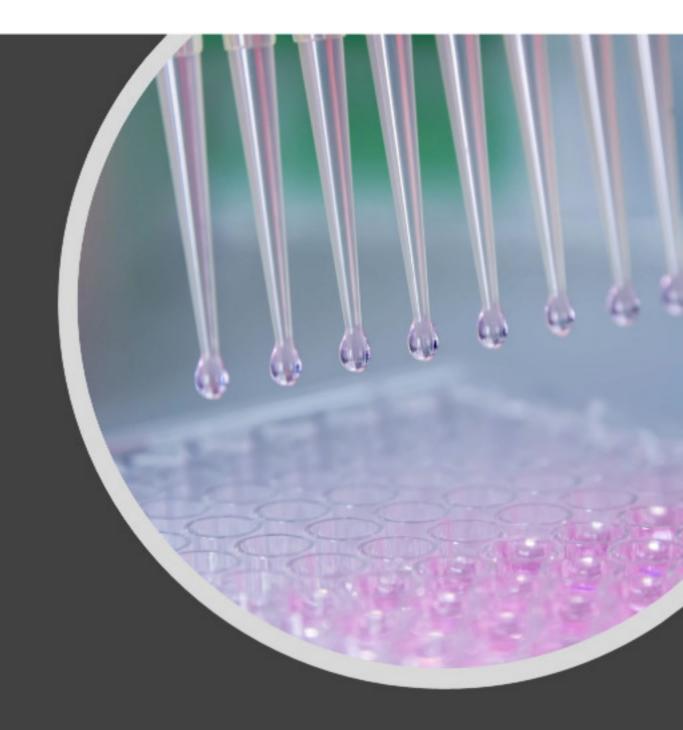


Collaborate!

IV vs DV

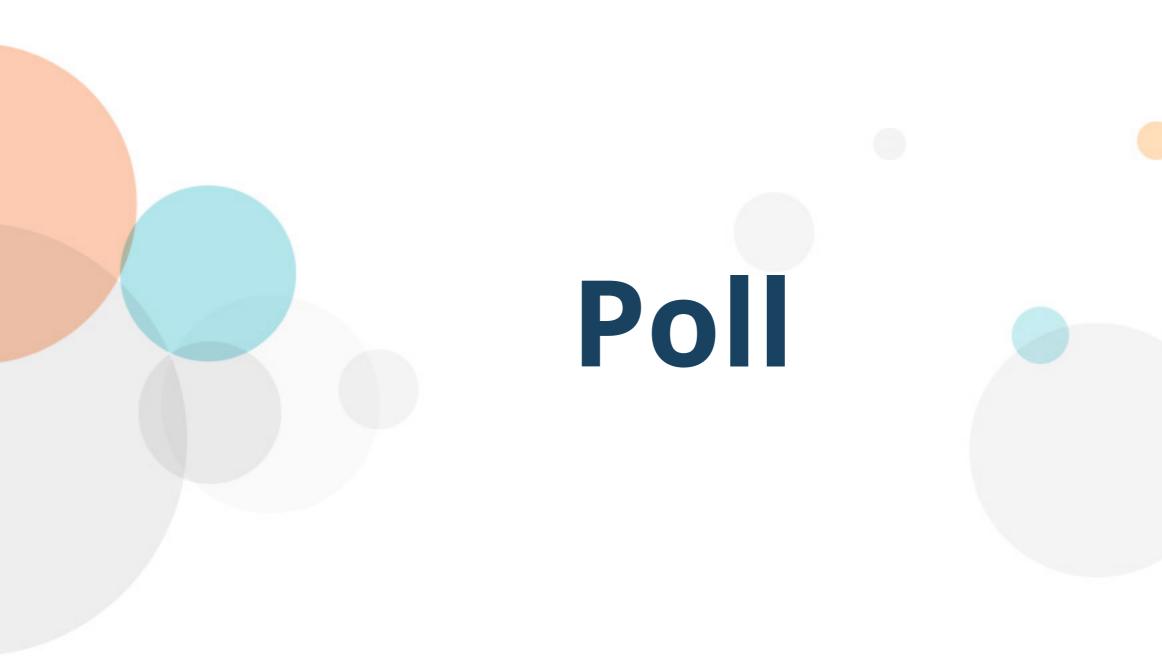
What is the control?

 The control is the standard against which the researcher compares the results from each treatment group (level) in the experiment.



What is a constant?

 A constant is a variable that does not change during the experiment so that it can be sued as a base for comparison.



Which variable does not change in an experiment?

- independent
- dependent
- ontrol 🖰

Now you try it...

L. How do different chemicals in fertilizers affect plant growth?
ndependent variable:
Dependent variable:
2. What is the effect on density of different mediums (air and glass) or the speed by which light travels?
ndependent variable:
Dependent variable:

Examples

 How do different che 	micals in fertilizers affect	plant growth?
Independent variable: _	chemical in fertilizer	
Dependent variable:	plant growth	
2. What is the effect on the speed by which light Independent variable: _	density of different medions to travels? density	ums (air and glass) or
Dependent variable:	speed of light travels	

Why we should wear masks?



 https://youtu.be/0Tp0zB9 04Mc



https://www.youtube.com/embed/ri4vherO3vQ



How often do you wear a mask out in public right now to stop the spread of COVID-19?

- All the time
- Some of the time
- Not at all

Identify the independent and dependent variable.

How does wearing a mask prevent the spread of COVID-19?
 Independent variable ______
 Dependent variable ______

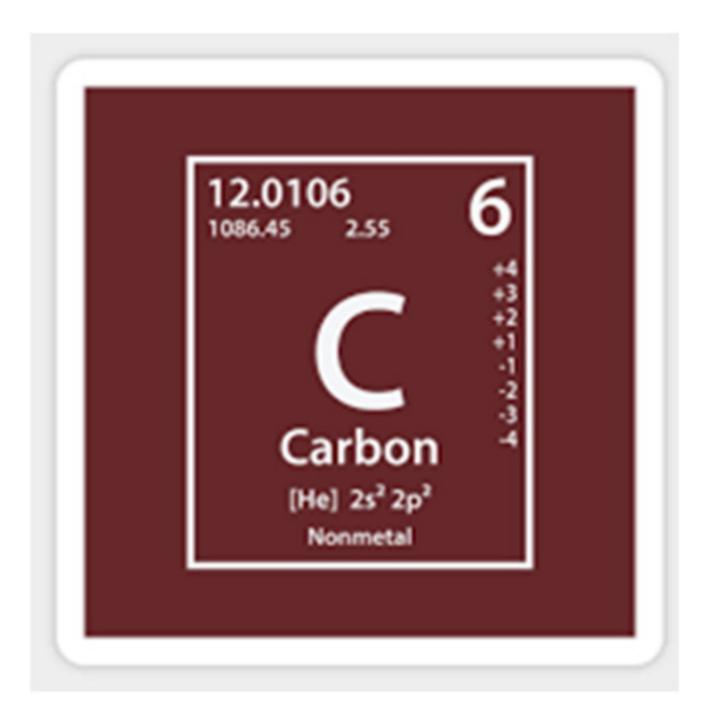
Identify the independent and dependent variable.

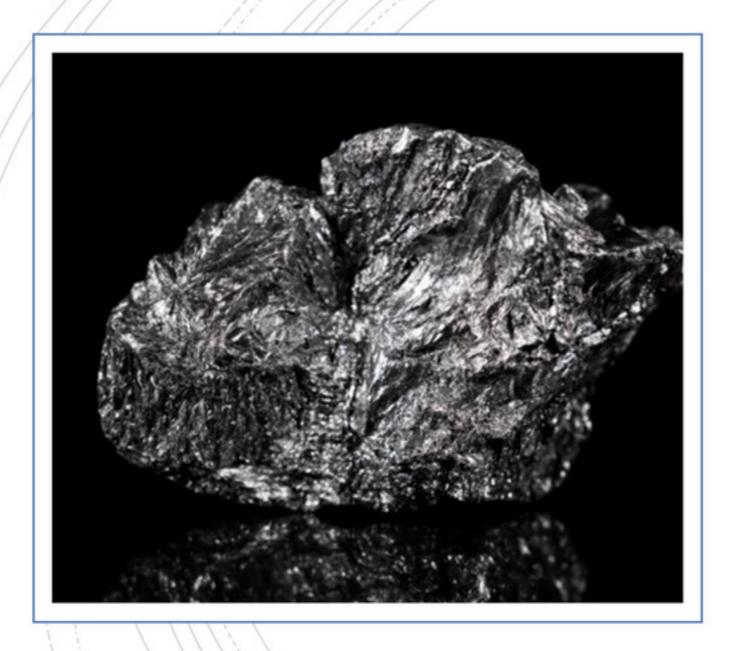
How does wearing a mask prevent the spread of COVID-19?

Independent variable <u>wearing a mask</u>

Dependent variable ____spread of COVID-19







Carbon Facts

- · Carbon is a nonmetallic element
- It is the 6th most abundant element.
- Three naturally occurring allotropes of carbon are known to exist: amorphous, graphite and diamond.
- There are nearly ten million known carbon compounds and an entire branch of chemistry, known as organic chemistry, is devoted to their study.



https://ca.pbslearningmedia.org/resource/ess05.sci.ess.eiu.carbon/ingredients-for-life-carbon/



https://www.youtube.com/embed/EmzYs0SundU

Carbon is in all living and nonliving things.





Poll

Do all three examples contain Carbon? a. the graphite in our pencils and the black ink in our pens b. the DNA in our cells and the air in our lungs c. the wood in our chairs





 https://ca.pbslearningmedia.org/resou rce/610dd6de-ac50-4be7-9af4-65aac2270180/the-combustion-ofwood/

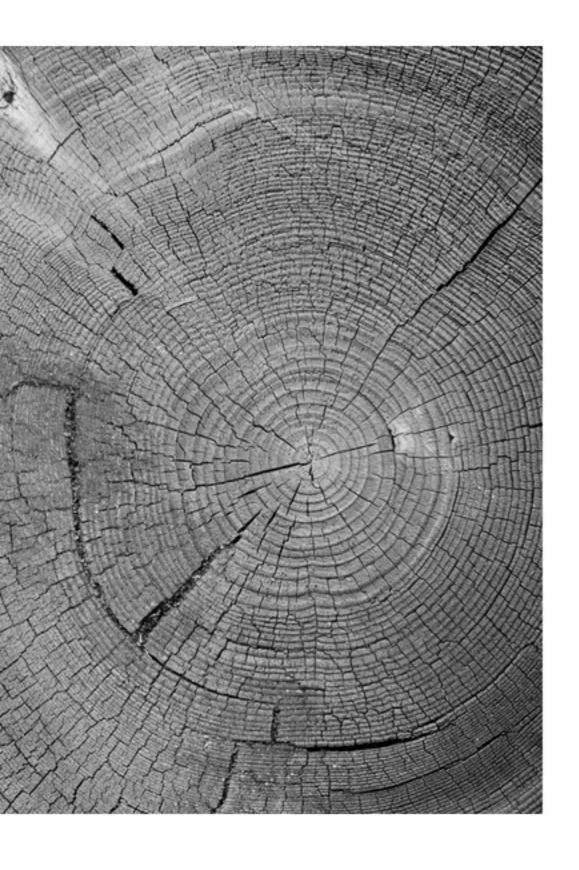


https://www.youtube.com/embed/B0E4PX3e3RE



The burning of wood is a combustion reaction. When the wood burns it releases what two products?

- oxygen and water
- water and carbon dioxide
- oxygen and carbon dioxide
- methane and oxygen



The burning of wood is a combustion reaction.

 When the wood burns it releases what two products?

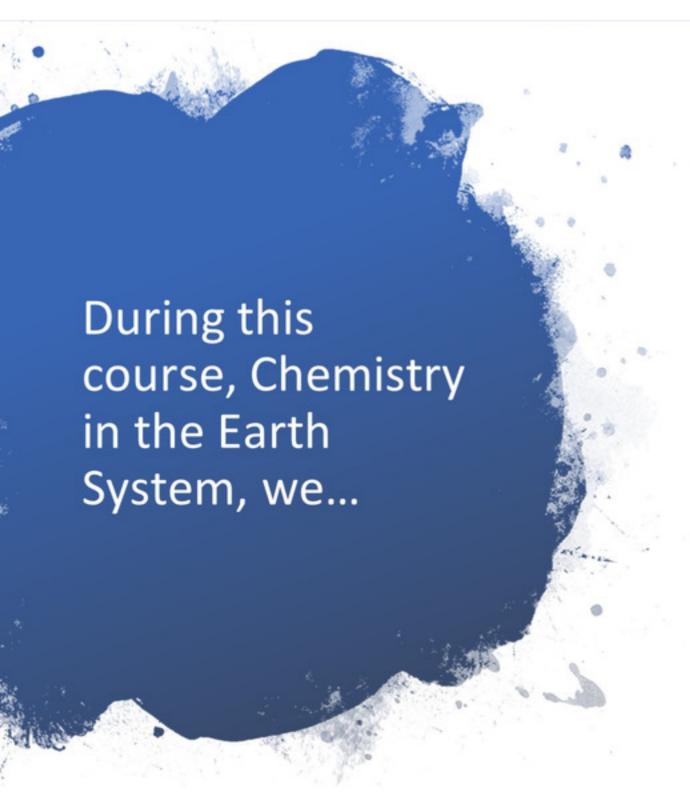
Circle them.

- Oxygen
- Water
- Methane
- Carbon dioxide

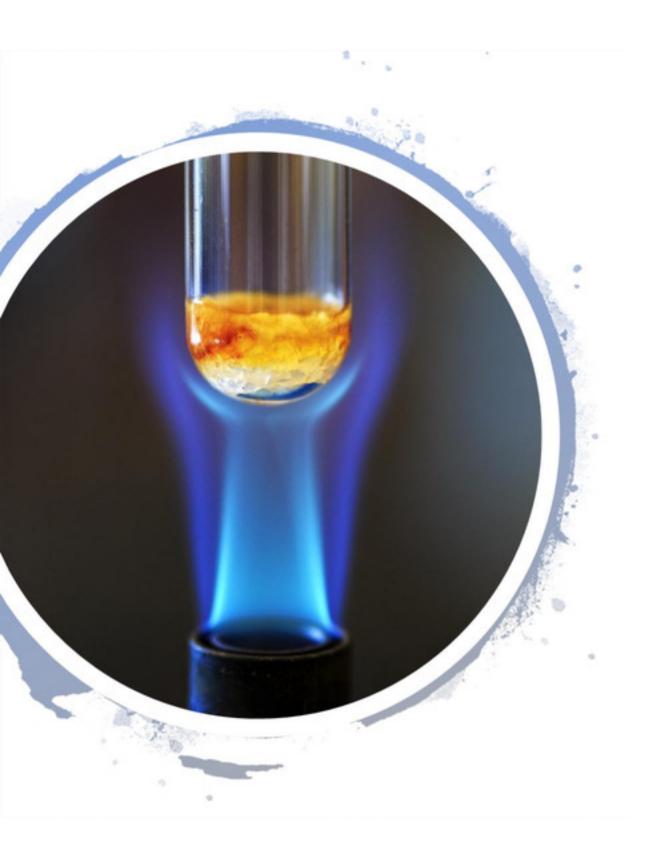
Carbon is Stardust...

- Carbon was not created during the Big Bang, but rather much later in stars. All of the carbon in all living things is made in the nuclear fusion reactors that we call stars. The early stars are massive and short-lived. They consume their hydrogen, helium and lithium and produce heavier elements.
- When these stars die with a bang they spread the elements of life, carbon and oxygen, throughout the universe. New stars condense and new planets form from these heavier elements. The stage is set for life to begin.





- will be investigating and learning about the discipline of chemistry as it relates to our planet Earth, through the Story of Carbon.
- will begin by investigating one of the five traditional types of chemical reactions, Combustion.



A combustion reaction...

 involves fuel that reacts with oxygen to produce water, carbon dioxide and energy.

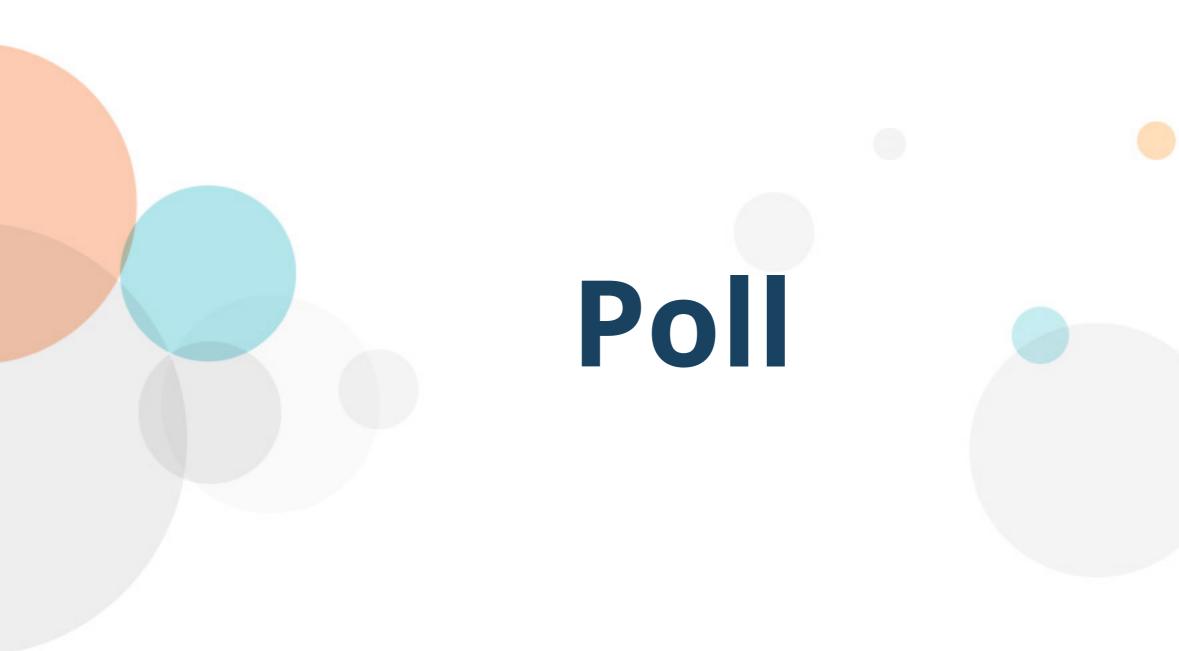
Parts of a reaction

https://www.youtube.com/watch?v=3VoFk
 Qtg6Wo





https://www.youtube.com/embed/3VoFkQtg6Wo



What is the left side of a chemical equation called?

- reactants
- products

What do you need to do for HW over the weekend?



Open up a new





Assignments to complete

Now, go to google classroom and complete the assignments for next class by the due date.