

# JUMPSTART #17

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1. Are the following compounds ionic or covalent?

Potassium Sulfate

$\text{PH}_3$

2. What is the compound name of the following:

$(\text{NH}_4) \text{Br}$

# NAMING COVALENT MOLECULES



# JUST like ionic, but use prefixes

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# of atoms	Prefix
1	mono-
2	di-
3	tri-
4	tetra-
5	penta-
6	hexa-
7	hepta-
8	octa-
9	nona-
10	deca-

Put a prefix in front of the ion name (except if it is mono- for the first element, then just leave it off)

$\text{SF}_6$  Sulfur hexafluoride

$\text{CO}_2$  Carbon dioxide

$\text{PCl}_3$  Phosphorous trichloride

$\text{N}_2\text{O}_3$  dinitrogen trioxide

# Weird naming with double vowels

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- When (a~~o~~) or (o~~o~~) bump up against each other drop the first one

NOT decAOxide ---- decoxide

NOT monOOxide ---- monoxide

NOT pentAOxide ---- pentoxide

Hexaiodide is correct!!!

Diiodide is correct!!!

Dioxide is correct!!!

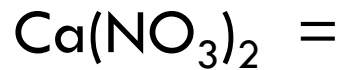
Trioxide is correct!!!

# Mixed ionic and covalent

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carbon tetrafluoride



Calcium Nitrate



diphosphorous pentoxide

<b>Seat #</b>	<b>Answer Question #</b>
11	1, 2
12	3, 4
13	5, 6
14	7, 8
15	9, 10
16	11, 12
17	13, 14
18	15, 16
19	17, 18
20	19, 20
21	21, 22
22	23, 24

# notebook set up for pg 92

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1. -----	5. -----
2. -----	6. -----
3. -----	7. -----
4. -----	8. -----

# Naming activity

1. Each partner picks 1 paper from 2 cups
2. Combine both papers to form a compound
3. You and your partner have 3 minutes to write down your compound's info:

TYPE OF COMPOUND

NAME

FORMULA

For example: I pick C my partner picks O

type = covalent    Formula = CO    Name = Carbon monoxide

I pick "magnesium" my partner picks "sulfate"

Type = ionic    Name = Magnesium sulfate    Formula =  $\text{Mg}(\text{SO}_4)$



# Extra problems

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$\text{FeCl}_3 =$  Iron (III) chloride

$\text{N}_2\text{H}_4 =$  dnitrogen tetrahydride

$\text{Sn}(\text{OH})_4 =$  Tin (IV) tetroxide

Partner 1	Partner 2	Location 1 <sup>st</sup> Period
Skyler G.	Sankalp P.	1A
Colin H.	Abigalyle B.	1B
Roberto L.	Tiffany D.	2A
Sarah A.	Meelad R.	2B
Sarah S.	Michelle L.	3A
Rebecca O.	Sierra G.	3B
Bradford L.	Chenelle G	4A Noah B.
Nathan G.	Ashleen G.	4B
Daniela P.	Jeremiah P.	5A
Matthew N.	Georgiy K.	5B
Simran P.	Mustafa T.	6A
Jessica A.	Kira M.	6B
Shanel K.	Edrees Q.	7A
Mythri C.	Joo A.	7B
Kobe R.	Gerel B.	8A
Bijan H.	James B.	8B

Partner 1	Partner 2	Location	2 <sup>nd</sup> Period
Kaleb M.	Sane J.	1A	Hayley J.
Caitlyn M.	Shawn J.	1B	
Collin V.	Alexander W.	2A	
Lucy H.	Jayson S.	2B	
Vares S.	Stephanie S.	3A	
Ryan A.	Olivia S.	3B	
Hamza K.	Michelle M.	4A	
Sameera R.	Craig G.	4B	
Danielle B.	Nickolas N.	5A	Rahul A.
Jules H.	Alyssa C.	5B	
Cole R.	Marina A.	6A	
Mirabelle T.	Kyle P.	6B	
Sahar R.	Radley R.	7A	
Arssani E.	Abishek N.	7B	
Ankit K.	Cassidy P.	8A	
Shesha S.	Jason Y.	8B	

Partner 1	Partner 2	Location 3 <sup>rd</sup> Period
Neil B.	Brianna T.	1A
Sabrina C.	Elyas O.	1B
Jesse D.	Isabelle J.	2A
Collin D.	Dilveen K.	2B
Stephanie L.	Jonathan B.	3A
Yonatan M.	Brandon C.	3B
Ankita N.	Andrew K.	4A
SaRoya J.	Amanda L.	4B Austin B.
Jingbo H.	Sangmin J.	5A
Sohan B.	Joshua N.	5B
Hannah P.	Liana I.	6A
Brandon K.	Minglu Z.	6B
Dain Y.	Christian C.	7A Loren G.
Alexandra C.	Dylan A.	7B
Valerie H.	Jason N.	8A
Nadia R.	Duncan N.	8B Rachel

Partner 1	Partner 2	Location 4 <sup>th</sup> Period
Luvana H.	Andrew W.	1A
Basha W.	Samantha L.	1B
Bernard D.	Brittany T.	2A
Raymond S.	Tae J.	2B
Gauri P.	Eronmosele F.	3A
David N.	Karina Z.	3B
Katelynn B.	Fan H.	4A
Joshua K.	Ashley I.	4B
Seohyun J.	Andrew C.	5A
Marina Y.	Emma K.	5B
Randy C.	Moses L.	6A
Francisco C.	Autumn H.	6B
Ibukun S.	Alyssa S.	7A
Julia J.	Ethan S.	7B
Ethan N.	Valerie L.	8A
Riley W.	Samuel L.	8B

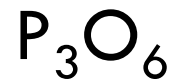
Partner 1	Partner 2	Location (5 <sup>th</sup> period)
Eric T.	Analiese I.	1A
Reza P.	Julia G.	1B
Joseph R.	Melina J.	2A
Francis A.	Kelsey K.	2B
Luke Y.	Caitlyn Y.	3A
Arizo A.	Neeraj S.	3B
Juliette P.	Basil R.	4A
Anthony H.	Roberto D.	4B
Yuvika G.	Hannah L.	5A
Nygia W.	Megan B.	5B
Mark M.	Melieka F.	6A
Aileen T.	Abel T.	6B
Omer S.	Selena H.	7A
Conner C.	Robert R.	7B
Ashley N.	Jake E.	8A
Franz Z.	Sadaf W.	8B

Partner 1	Partner 2	Lab Bench 6 <sup>th</sup> period
Jaiden M.	Ryan Z	1A
Veronica V.	Michael E.	1B
Nicole F.	Chris C.	2A
Kartik B.	Almira S.	2B
Nadine K.	Simon H.	3A
Aishwarya M.	Ram J.	3B
Arya G.	Juan L.	4A
Sharon S.	Mariella M.	4B
Chinmay M.	Asmaa M.	5A
Brennan B.	Sam D.	5B
Alyssa A.	Riza A.	6A
Kristina M.	Amanda O.	6B
Bianca J.	Ayonabh R.	7A
Hollyann G.	Vivek J.	7B
Bernard N.	Jonathan B.	8A
Jocelyn B.	Joelle H.	8B

# Exit Ticket

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Name the following:



What is the chemical formula for:

Sulfur dichloride



Partner 1	Partner 2	location
		1A
		1B
		2A
		2B
		3A
		3B
		4A
		4B
		5A
		5B
		6A
		6B
		7A
		7B
		8A
		8B