

# Jeopardy!

Bonding & Nomenclature Test Review



# JEOPARDY!

Hey girl, you  
single?

Are you two  
dating?

Three's a  
crowd

The Name  
Game

You never  
know what  
you are  
going to get

\$100

\$100

\$100

\$100

\$100

\$200

\$200

\$200

\$200

\$200

\$300

\$300

\$300

\$300

\$300

\$400

\$400

\$400

\$400

\$400

\$500

\$500

\$500

\$500

\$500

# Question:

# Monoatomic Ions for \$100

---

What is the charge of Iodine?



Answer:  
Monoatomic Ions for \$100

---

-1

BACK TO GAMEBOARD

# Question:

# Monoatomic Ions for \$200

---

What is the charge of Cesium?



Answer:  
Monoatomic Ions for \$200

---

+1

BACK TO GAMEBOARD

# Question:

# Monoatomic Ions for \$300

---

What is the charge of Aluminum?

The bottom right corner of the slide features a decorative graphic of several concentric circles, resembling ripples on water, rendered in a lighter shade of blue against the background.

Answer:  
Monoatomic Ions for \$300

---

+3

BACK TO GAMEBOARD



# Question:

# Monoatomic Ions for \$400

---

What is the charge of Bismuth?



Answer:  
Monoatomic Ions for \$400

---

-3

BACK TO GAMEBOARD

# Question:

# Monoatomic Ions for \$500

---

What is the charge of Manganese?



Answer:  
Monoatomic Ions for \$500

---

+2

BACK TO GAMEBOARD

# Question:

# Binary Compounds for \$100

---

What is the chemical formula of sodium chloride?



Answer:

# Binary Compounds for \$100

---

NaCl

BACK TO GAMEBOARD

# Question:

# Binary Compounds for \$200

---

What is the chemical formula of silver sulfide?



Answer:

# Binary Compounds for \$200

---



BACK TO GAMEBOARD



# Question:

# Binary Compounds for \$300

---

What is the chemical formula of Copper (III) Telluride?



Answer:

# Binary Compounds for \$300

---



BACK TO GAMEBOARD

# Question:

## Binary Compounds for \$400

---

What is the chemical formula of Thallium (I) carbide?



Answer:  
Binary Compounds for \$400

---



BACK TO GAMEBOARD

# Question:

# Binary Compounds for \$500

---

What is the chemical formula of chromium (III) oxide?

The bottom right corner of the slide features a decorative graphic of several concentric circles, resembling ripples on water, rendered in a lighter shade of blue against the background.

Answer:

# Binary Compounds for \$500

---



BACK TO GAMEBOARD

Question:

# Polyatomic Compounds for \$100

---

What is the chemical formula of barium sulfate?

The bottom right corner of the slide features a decorative graphic of several concentric, light blue circles that resemble ripples on water, set against the solid blue background.

Answer:

# Polyatomic Compounds for \$100

---



BACK TO GAMEBOARD



Question:

# Polyatomic Compounds for \$200

---

What is the chemical formula of Iron (III) phosphate?

The bottom of the slide features a decorative graphic of several concentric circles, resembling ripples on water, rendered in a lighter shade of blue against the background.

Answer:

# Polyatomic Compounds for \$200

---



BACK TO GAMEBOARD

Question:

# Polyatomic Compounds for \$300

---

What is the chemical formula of copper (II) carbonate?



Answer:

# Polyatomic Compounds for \$300

---



BACK TO GAMEBOARD

Question:

# Polyatomic Compounds for \$400

---

What is the chemical formula of Cobalt (II) hydroxide?

The background of the slide features several faint, concentric circular ripples, resembling water droplets, scattered across the lower half of the blue background.

Answer:

# Polyatomic Compounds for \$400

---



BACK TO GAMEBOARD

Question:

# Polyatomic Compounds for \$500

---

What is the chemical formula of Chromium (III) oxalate?

The background of the slide features a blue gradient with several faint, concentric circular ripples in the lower half, resembling water droplets on a surface.

Answer:

# Polyatomic Compounds for \$500

---



BACK TO GAMEBOARD



Question:

# Naming Compounds for \$100

---

What is the name of the compound  $C_2H_4$ ?



Answer:

# Naming Compounds for \$100

---

Dicarbon Tetrahydride

BACK TO GAMEBOARD

Question:

# Naming Compounds for \$200

---

What is the name of the compound  $\text{Ag}_2\text{S}$ ?



Answer:

# Naming Compounds for \$200

---

Silver Sulfide

BACK TO GAMEBOARD

Question:

# Naming Compounds for \$300

---

What is the name of the compound  $\text{NiCl}_2$ ?



Answer:

# Naming Compounds for \$300

---

Nickel chloride

BACK TO GAMEBOARD

Question:

# Naming Compounds for \$400

---

What is the name of  $\text{Fe}_2(\text{SO}_4)_3$ ?



Answer:

# Naming Compounds for \$400

---

Iron (III) Sulfate

BACK TO GAMEBOARD



Question:

# Naming Compounds for \$500

---

What is the name of  $\text{NH}_4\text{ClO}_3$ ?



Answer:

# Naming Compounds for \$500

---

Ammonium Chlorate


[BACK TO GAMEBOARD](#)

Question:

# You Never Know What You are Going to Get for \$100

---

When writing chemical formulas, the number \_\_\_\_\_  
is omitted because it is understood to be there.

The bottom half of the slide features a decorative background of light blue water ripples on a darker blue background, centered around the bottom right corner.

Answer:

You Never Know What You are  
Going to Get for \$100

---

1

BACK TO GAMEBOARD

Question:

You Never Know What You are  
Going to Get for \$200

---

Binary Compounds contain \_\_\_\_\_ elements,  
while polyatomic compounds contain more than  
\_\_\_\_\_ elements.



Answer:

You Never Know What You are  
Going to Get for \$200

---

2, 2


BACK TO GAMEBOARD

# Question:

## You Never Know What You are Going to Get for \$300

---

In binary compounds, the cation is written according to the \_\_\_\_\_ name, while the anion must remove its ending and add \_\_\_\_\_ at the end.



Answer:

You Never Know What You are  
Going to Get for \$300

---

element, -ide

BACK TO GAMEBOARD



Question:

You Never Know What You are  
Going to Get for \$400

---

A chemical compound is represented by a \_\_\_\_\_  
\_\_\_\_\_

The background of the slide features several sets of concentric circles in a lighter shade of blue, resembling ripples in water, positioned in the lower right quadrant.

Answer:

You Never Know What You are  
Going to Get for \$400

---

Chemical Formula

[BACK TO GAMEBOARD](#)

Question:

You Never Know What You are  
Going to Get for \$500

---

What 3 sports did both  
Nuggie and Connor play last  
year?

The background of the slide features several concentric, light blue circular ripples that resemble water droplets hitting a surface, scattered across the bottom half of the page.

# Answer: You Never Know What You are Going to Get for \$500



Swimming



Flag Football



Baseball



BACK TO GAMEBOARD

# DOUBLE JEOPARDY!

FINAL  
JEOPARDY

It's the  
moments in  
life

Who's  
stronger?

What you  
look like?

Say my  
name, say  
my name

He said,  
she said

\$200

\$200

\$200

\$200

\$200

\$400

\$400

\$400

\$400

\$400

\$600

\$600

\$600

\$600

\$600

\$800

\$800

\$800

\$800

\$800

\$1000

\$1000

\$1000

\$1000

\$1000

Question:

# IT'S THE MOMENTS IN LIFE for \$200

---

A dipole moment occurs between which type of bonds?



Answer:

IT'S THE MOMENTS IN LIFE for  
\$200

---

Covalent - specifically POLAR COVALENT

BACK TO GAMEBOARD

Question:

IT'S THE MOMENTS IN LIFE for  
\$400

---

Who has the stronger dipole moment F or P?





Answer:

IT'S THE MOMENTS IN LIFE for  
\$400

---

F - Fluorine

BACK TO GAMEBOARD

Question:

IT'S THE MOMENTS IN LIFE for  
\$600

---

Who has the stronger dipole moment Ge or As?



Answer:  
IT'S THE MOMENTS IN LIFE for  
\$600

---

As - Arsenic

BACK TO GAMEBOARD

Question:

# IT'S THE MOMENTS IN LIFE for \$800

---

Who has the stronger dipole moment Cl or N?



Answer:  
IT'S THE MOMENTS IN LIFE for  
\$800

---

Cl - Chlorine

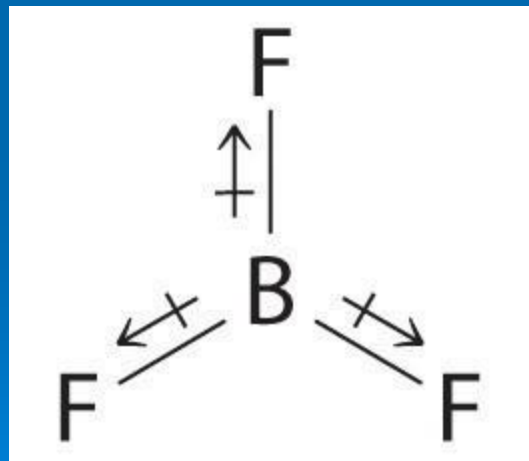
BACK TO GAMEBOARD

Question:

# IT'S THE MOMENTS IN LIFE for \$1000

---

Is this picture correct? Why or Why Not?



Answer:

# IT'S THE MOMENTS IN LIFE for \$1000

---

Yes, it's correct. You could add partial positive's and negatives, but not necessary

BACK TO GAMEBOARD

Question:

WHO'S STRONGER? for \$200

---

$\text{NO}_2$  or  $\text{LiF}$ ?

Why?





Answer:

# WHO'S STRONGER? for \$200

---

LiF - Ionic

BACK TO GAMEBOARD

Question:

WHO'S STRONGER? for \$400

---

RbF or KCl?

Why?



Answer:

WHO'S STRONGER? for \$400

---

RbF - END of 3.2 versus 2.2

BACK TO GAMEBOARD

Question:

# WHO'S STRONGER? for \$600

---

CaS or AIP?

Why?

The bottom right corner of the slide features several decorative, light blue water ripples of varying sizes, creating a subtle background pattern.

Answer:

# WHO'S STRONGER? for \$600

---

AIP - charges are +-3 versus +-2

[BACK TO GAMEBOARD](#)

Question:

# WHO'S STRONGER? for \$800

---

$S_2Br_7$  or  $NO_2$ ?

Why?



Answer:

WHO'S STRONGER? for \$800

---

NO<sub>2</sub> - END of 0.5 versus 0.3

BACK TO GAMEBOARD

Question:

WHO'S STRONGER? for \$1000

---

SO<sub>2</sub> or CO<sub>2</sub>?

Why?

The bottom half of the slide features several faint, concentric circular ripples in a lighter shade of blue, resembling water droplets on a surface. These ripples are scattered across the lower portion of the slide, with a larger one in the bottom right and several smaller ones to its left and further down.



Answer:

WHO'S STRONGER? for \$1000

---

They're EQUAL - same END

BACK TO GAMEBOARD

Question:  
**WHAT YOU LOOK LIKE? for  
\$200**

---

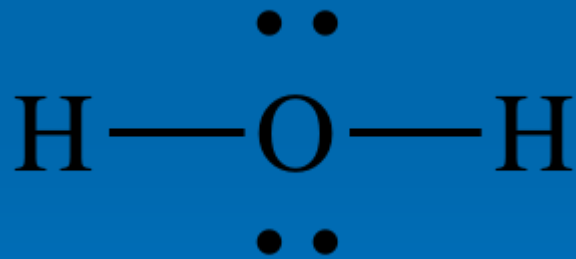
What is the Lewis Structure of water?



Answer:

WHAT YOU LOOK LIKE? for  
\$200

---



BACK TO GAMEBOARD

Question:  
WHAT YOU LOOK LIKE? for  
\$400

---

What is the Lewis Structure of CO<sub>2</sub>?



Answer:

WHAT YOU LOOK LIKE? for  
\$400

---



BACK TO GAMEBOARD

Question:  
WHAT YOU LOOK LIKE? for  
\$600

---

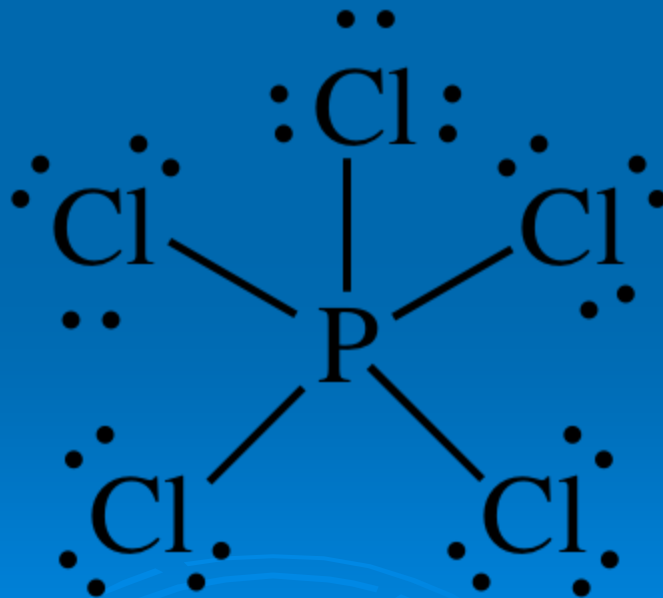
What is the Lewis Structure for  $\text{PCl}_5$ ?

The background of the slide features several sets of concentric circles in a lighter shade of blue, resembling ripples in water, positioned in the lower right quadrant.

Answer:

WHAT YOU LOOK LIKE? for  
\$600

---



BACK TO GAMEBOARD

Question:  
WHAT YOU LOOK LIKE? for  
\$800

---

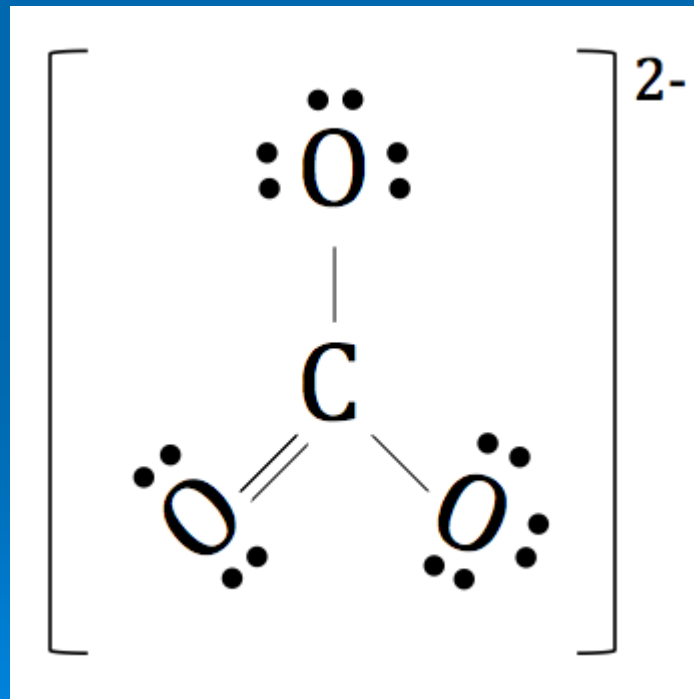
What is the Lewis Structure of  $\text{CO}_3^{2-}$ ?





Answer:

WHAT YOU LOOK LIKE? for  
\$800



BACK TO GAMEBOARD

Question:

# WHAT YOU LOOK LIKE? for \$1000

---

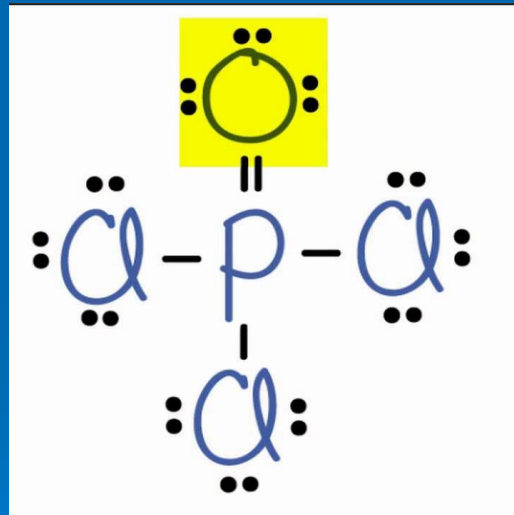
What is the Lewis Structure for  $\text{POCl}_3$ ?

The background of the slide features several sets of concentric circles in a lighter shade of blue, resembling ripples in water, positioned in the lower right quadrant.

Answer:

WHAT YOU LOOK LIKE? for  
\$1000

---



BACK TO GAMEBOARD

Question:  
SAY MY NAME, SAY MY NAME  
for \$200

---

UF<sub>6</sub>

The bottom half of the slide features a blue background with several faint, concentric circular ripples, resembling water droplets, scattered across the lower portion of the page.

Answer:  
SAY MY NAME, SAY MY NAME  
for \$200

---

Uranium Fluoride

BACK TO GAMEBOARD

Question:  
SAY MY NAME, SAY MY NAME  
for \$400

---

HgS

The bottom half of the slide features a decorative background of light blue water ripples on a darker blue background. There are four distinct ripple patterns of varying sizes and positions, creating a subtle, textured effect.

Answer:  
SAY MY NAME, SAY MY NAME  
for \$400

---

Mercury (II) Sulfide

BACK TO GAMEBOARD

Question:  
SAY MY NAME, SAY MY NAME  
for \$600

---

HNO<sub>2</sub>

The bottom half of the slide features a decorative background of light blue water ripples on a darker blue background, centered around the chemical formula.



Answer:  
SAY MY NAME, SAY MY NAME  
for \$600

---

Nitrous Acid

BACK TO GAMEBOARD

Question:

SAY MY NAME, SAY MY NAME  
for \$800

---



Answer:  
SAY MY NAME, SAY MY NAME  
for \$800

---

Dinitrogen Tetrahydride

BACK TO GAMEBOARD

Question:

SAY MY NAME, SAY MY NAME  
for \$1000

---



Answer:  
SAY MY NAME, SAY MY NAME  
for \$1000

---

Citric Acid

BACK TO GAMEBOARD

Question:  
HE SAID, SHE SAID for \$200

---

My bonds are found in all states of matter



Answer:  
HE SAID, SHE SAID for \$200

---

Covalent

BACK TO GAMEBOARD

Question:  
HE SAID, SHE SAID for \$400

---

In water, my bonds dissociate and conduct electricity

The bottom half of the slide features a decorative background of concentric circles representing water ripples, rendered in a lighter shade of blue against the main blue background.



Answer:

HE SAID, SHE SAID for \$400

---

Ionic

BACK TO GAMEBOARD

Question:  
HE SAID, SHE SAID for \$600

---

In water, I dissolve, but can't conduct electricity

The bottom half of the slide features a decorative background of concentric circles representing water ripples, rendered in a lighter shade of blue against the main blue background.

Answer:  
HE SAID, SHE SAID for \$600

---

Polar Covalent

BACK TO GAMEBOARD

Question:

HE SAID, SHE SAID for \$800

---

Rank the strength of intramolecular & intermolecular forces -  
strongest to weakest

BONUS \$200 - What is the other name for intermolecular  
forces?



Answer:

HE SAID, SHE SAID for \$800

---

Intra - Ionic, Polar Covalent, Nonpolar Covalent

Inter - Ionic, Hydrogen Bonds, Dipole-Dipole, London Forces

BONUS - Van Der Waals

BACK TO GAMEBOARD

# Question:

# HE SAID, SHE SAID for \$1000

---

Why does your body need electrolytes?

The bottom of the slide features several faint, concentric circular ripples in a lighter shade of blue, resembling water droplets on a surface, positioned in the lower right and bottom center areas.

Answer:

HE SAID, SHE SAID for \$1000

---

Electrolytes are any substance that ionizes in water & can conduct electricity. Your nervous systems runs on electric impulses, if your body fluid is not ionized, your brain can't send messages back and forth to other parts of your body.

BACK TO GAMEBOARD

# Final Jeopardy!

Yeah, we're not there yet, but ....

The background of the slide is a solid blue color. In the lower half, there are several faint, concentric circular ripples that resemble water droplets hitting a surface. These ripples are centered in the lower-left, lower-middle, and lower-right areas of the slide.



# QUESTION: FINAL JEOPARDY!

---

How many atoms are in the formula  $\text{Sn}_3(\text{PO}_4)_4$ ?

# ANSWER: FINAL JEOPARDY!

---

23 totals atoms

$$\text{Sn} = 3$$

$$\text{P} = 4$$

$$\text{O} = 16$$
