

# The Chemical Bonding Game

Fun Practice

# Getting Started with Ionic Bonding

A Quick Review.....

What are Ionic Bonds?

- Chemical bonds between metals and non-metals
- Form Between ions with opposite charge (opposites attract)

Writing and Balancing Chemical Formulas



# Writing and Balancing Chemical Formulas

A Quick Review.....

If we have these two ions, which do we write first?

Now what do we need to do?



Balance the Charge!!!!



# Having Fun With Ionic Bonding

Meeting people through Chemistry

## What to do.....

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- ▶ Tape the card to the front of your shirt so that everyone can see what ion you are.....
  - ▶ Make sure you are an ion....
- ▶ You will be going around the room making as many ionic bonds with your neighbors as possible
- ▶ You will have 5 min.
- ▶ Make sure you have a piece of paper and a pencil
  - ▶ There will be some things you will need to write down....



# What you need to write down

Make the following table.....

Positive Ion	Negative Ion	Balanced Chemical Formula	Chemical Name
$\text{Na}^+$	$\text{S}^{-2}$	$\text{Na}_2\text{S}$	Sodium Sulfur



Lets Practice.....



Let's Do It!

# More Bonding

Practice with covalent and metallic bonds



# Getting Started with Ionic Bonding

A Quick Review.....

What are Covalent Bonds?

- Chemical bonds between non-metals and non-metals
- Atoms SHARE electrons

What are Metallic Bonds?

- Chemical bonds between metals and metals



## What to do.....

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- ▶ Switch cards with a neighbor
- ▶ Tape the card to the front of your shirt so that everyone can see what **ATOM** you are.....
  - ▶ Make sure you are an atom....
- ▶ You will be going around the room making as many Covalent or Metallic bonds with your neighbors as possible
  - ▶ Don't make any ionic bonds this time!!!
- ▶ You will have 5 min.
- ▶ Make sure you have a piece of paper and a pencil
  - ▶ There will be some things you will need to write down....



# What you need to write down

Make the following table.....

Atomic symbol	Atomic Name	Valance Electrons	Type of bond
<b>K</b>	Potassium	1 e <sup>-</sup>	Metallic

Na K

Lets Practice.....



Let's Do It!