



Name: _____

Collisions Username: _____

Class: _____

Ionic Bonding Quest

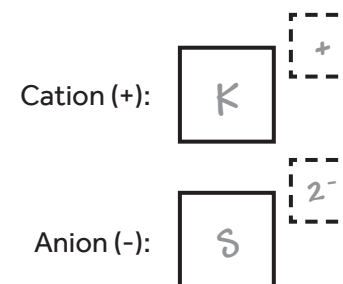
Complete this quest using the Challenge Levels 3, 5 - 10 and the Connected Levels in the Ionic Bonding Game.

MISSION 1. GATHER YOUR INTEL

Use your Collisions gameplay experience to gather the following intel from specific Ionic Bonding levels:

1. Determine the cation in the target.
 - a. Label the element symbol(s) in the large square.
 - b. Write the charge in the smaller, dashed box.
2. Determine the anion in the target.
 - a. Label the element symbol(s) in the large square.
 - b. Write the charge in the smaller, dashed box.

Sample Target



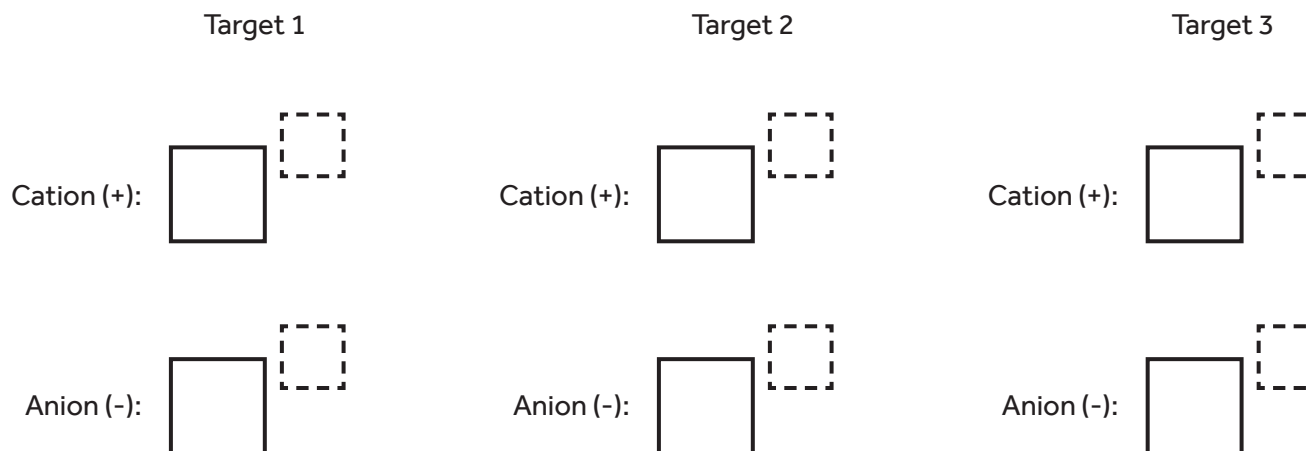
MISSION 2. EXPOSE THE DETAILS

Use your expertise to expose the following information for each target.

Sample Target	
Chemical Formula	K_2S
Compound Name	Potassium Sulfide
Lewis Structure	$[K]^+ [K]^+ [:\ddot{S}:]^{2-}$
Formula Mass (g/mol)	110.27 g/mol

Ionic Bonding - Challenge Level 3

MISSION 1. GATHER YOUR INTEL



MISSION 2. EXPOSE THE DETAILS

	Target 1	Target 2	Target 3
Chemical Formula			
Compound Name			
Lewis Structure			
Formula Mass (g/mol)			

Ionic Bonding - Challenge Level 5

MISSION 1. GATHER YOUR INTEL

	Target 1	Target 2
Cation (+):	<input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/>
Anion (-):	<input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/>

MISSION 2. EXPOSE THE DETAILS

	Target 1	Target 2
Chemical Formula		
Compound Name		
Lewis Structure		
Formula Mass (g/mol)		

Ionic Bonding - Challenge Level 6

MISSION 1. GATHER YOUR INTEL

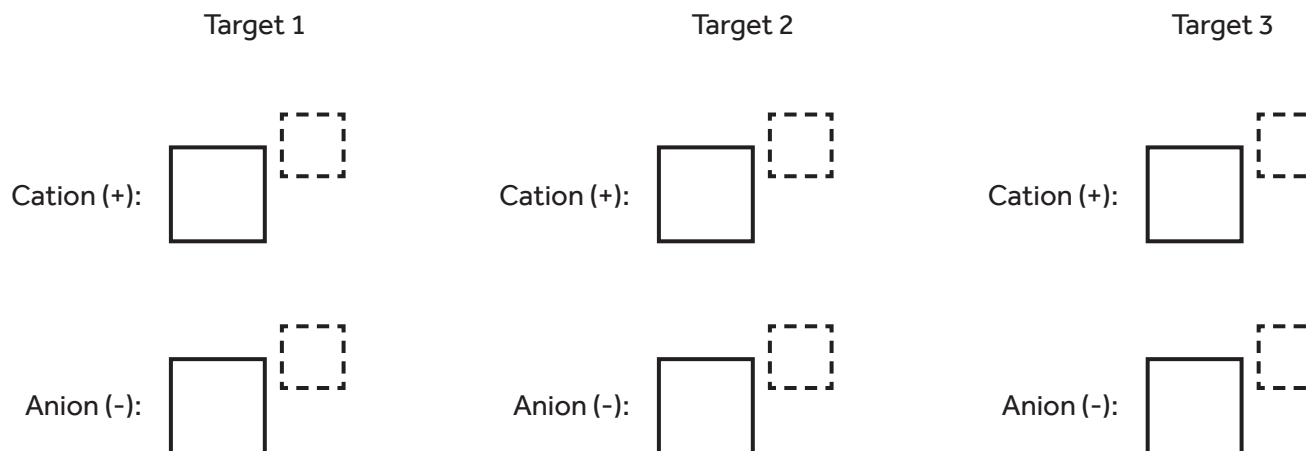
	Target 2	Target 3
Cation (+):	<input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/>
Anion (-):	<input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/>

MISSION 2. EXPOSE THE DETAILS

	Target 1	Target 2
Chemical Formula		
Compound Name		
Lewis Structure		
Formula Mass (g/mol)		

Ionic Bonding - Challenge Level 7

MISSION 1. GATHER YOUR INTEL

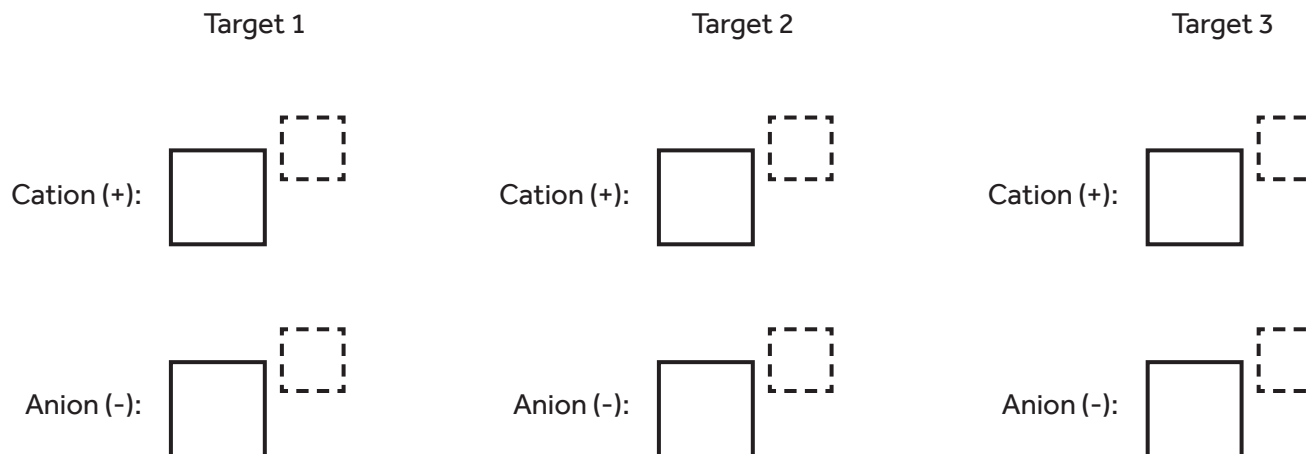


MISSION 2. EXPOSE THE DETAILS

	Target 1	Target 2	Target 3
Chemical Formula			
Compound Name			
Lewis Structure			
Formula Mass (g/mol)			

Ionic Bonding - Challenge Level 8

MISSION 1. GATHER YOUR INTEL

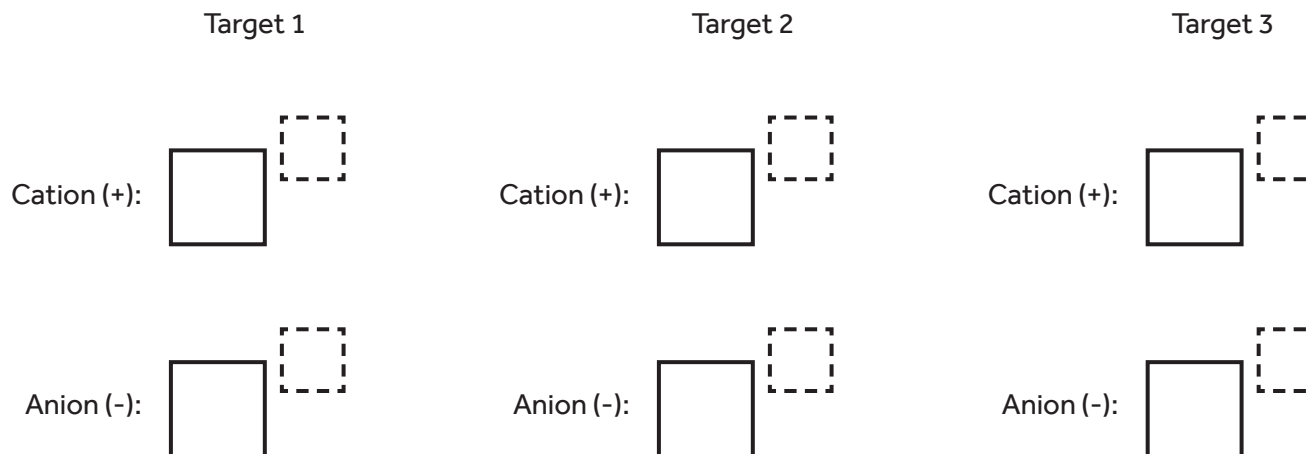


MISSION 2. EXPOSE THE DETAILS

	Target 1	Target 2	Target 3
Chemical Formula			
Compound Name			
Lewis Structure			
Formula Mass (g/mol)			

Ionic Bonding - Challenge Level 9

MISSION 1. GATHER YOUR INTEL

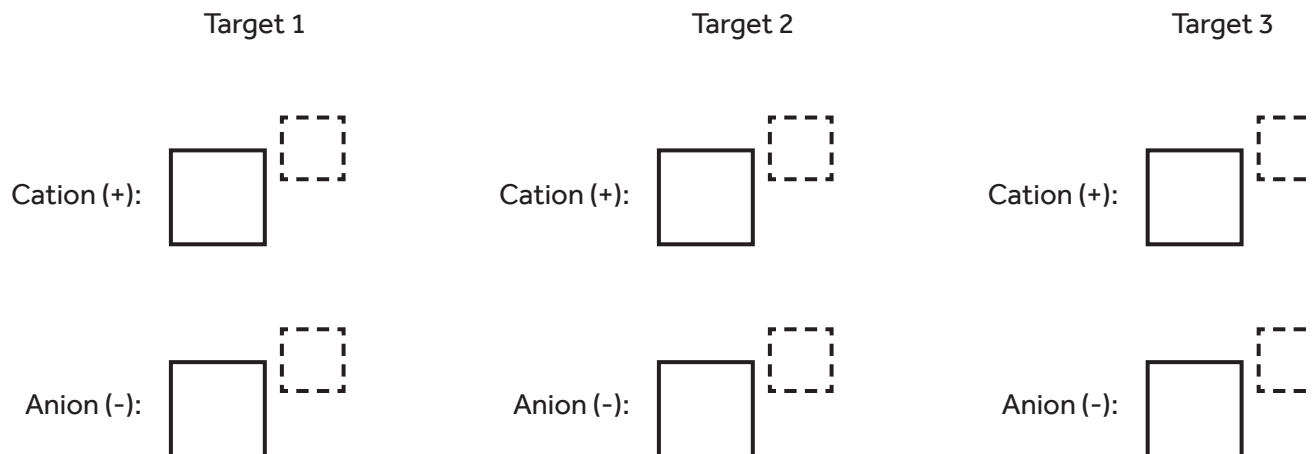


MISSION 2. EXPOSE THE DETAILS

	Target 1	Target 2	Target 3
Chemical Formula			
Compound Name			
Lewis Structure			
Formula Mass (g/mol)			

Ionic Bonding - Challenge Level 10

MISSION 1. GATHER YOUR INTEL

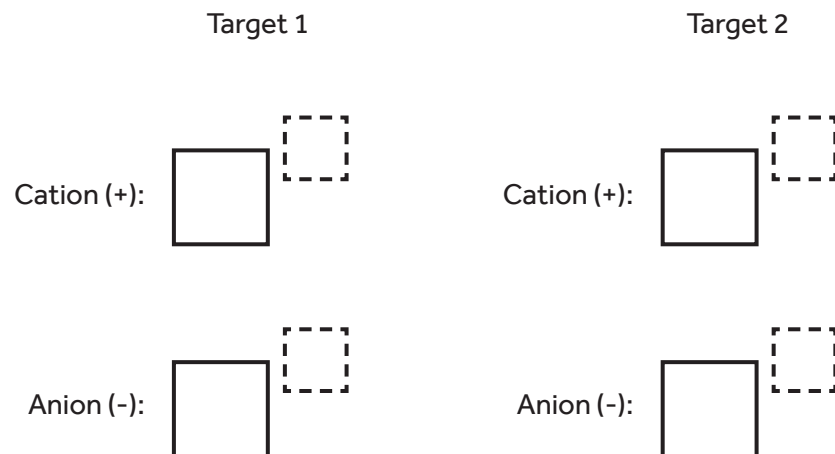


MISSION 2. EXPOSE THE DETAILS

	Target 1	Target 2	Target 3
Chemical Formula			
Compound Name			
Lewis Structure			
Formula Mass (g/mol)			

Ionic Bonding and Ions - Connected Level 1

MISSION 1. GATHER YOUR INTEL

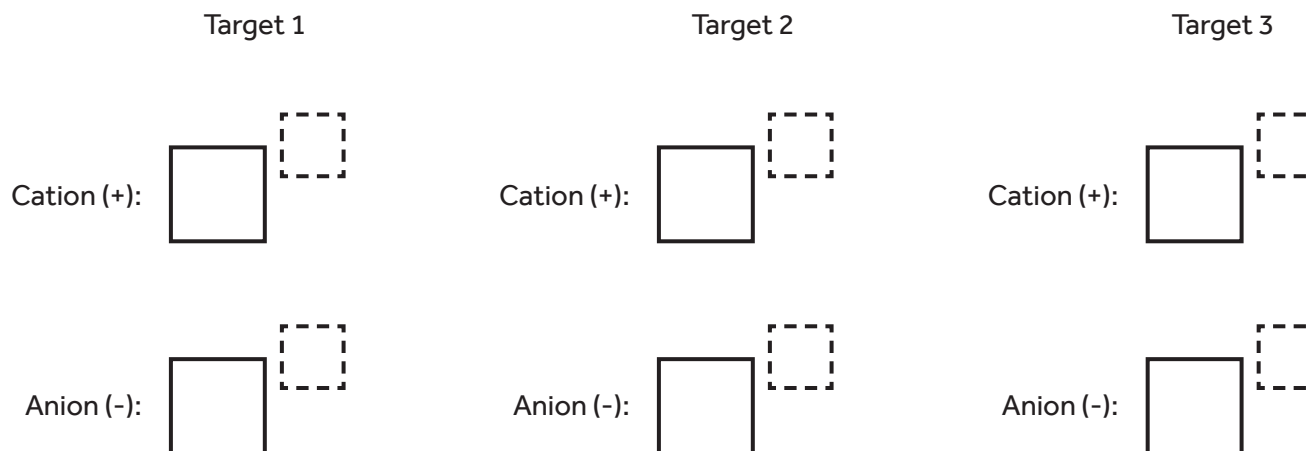


MISSION 2. EXPOSE THE DETAILS

	Target 1	Target 2
Chemical Formula		
Compound Name		
Lewis Structure		
Formula Mass (g/mol)		

Ionic Bonding and Ions - Connected Level 2

MISSION 1. GATHER YOUR INTEL

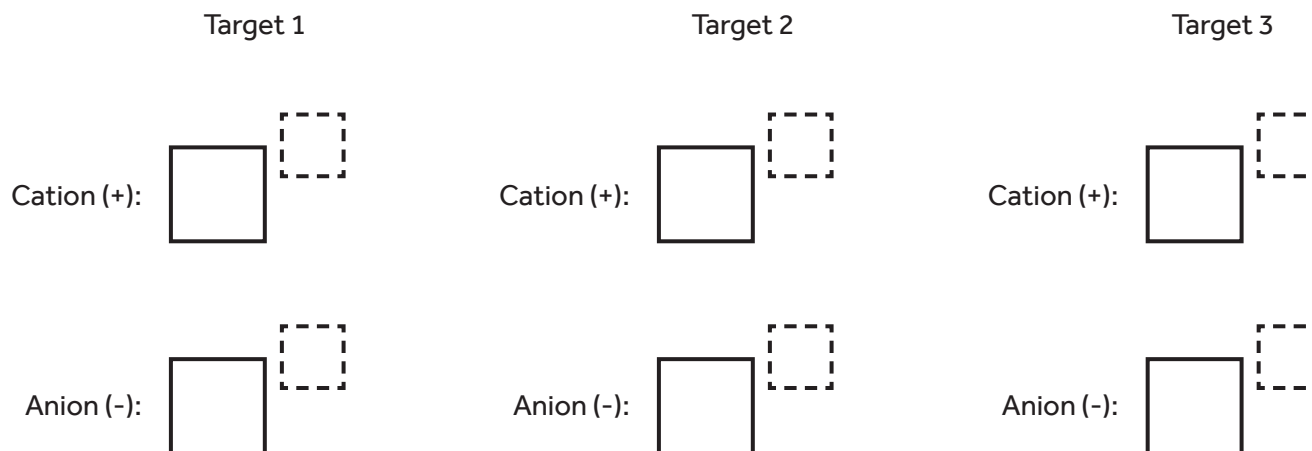


MISSION 2. EXPOSE THE DETAILS

	Target 1	Target 2	Target 3
Chemical Formula			
Compound Name			
Lewis Structure			
Formula Mass (g/mol)			

Ionic Bonding and Ions - Connected Level 3

MISSION 1. GATHER YOUR INTEL

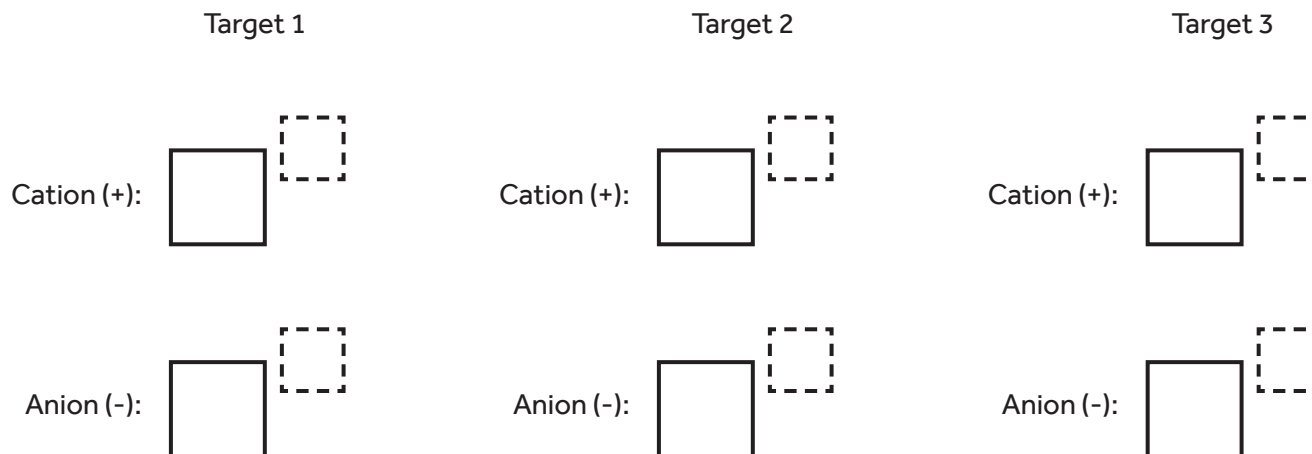


MISSION 2. EXPOSE THE DETAILS

	Target 1	Target 2	Target 3
Chemical Formula			
Compound Name			
Lewis Structure			
Formula Mass (g/mol)			

Ionic Bonding and Acids & Bases - Connected Level 1

MISSION 1. GATHER YOUR INTEL



MISSION 2. EXPOSE THE DETAILS

	Target 1	Target 2	Target 3
Chemical Formula			
Compound Name			
Lewis Structure			
Formula Mass (g/mol)			

Ionic Bonding and Acids & Bases - Connected Level 2

MISSION 1. GATHER YOUR INTEL

	Target 1	Target 2	Target 3
Cation (+):	<input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/>
Anion (-):	<input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/>

MISSION 2. EXPOSE THE DETAILS

	Target 1	Target 2	Target 3
Chemical Formula			
Compound Name			
Lewis Structure			
Formula Mass (g/mol)			

Ionic Bonding and Acids & Bases - Connected Level 3

MISSION 1. GATHER YOUR INTEL

	Target 1	Target 2	Target 3
Cation (+):	<input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/>
Anion (-):	<input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/>

MISSION 2. EXPOSE THE DETAILS

	Target 1	Target 2	Target 3
Chemical Formula			
Compound Name			
Lewis Structure			
Formula Mass (g/mol)			