Ionic World Chemistry Review By Ben Spieldenner Teacher Notes

lonic World is a review game over elements and compounds. The game has four stages and requires students to know basic element information and compound equations. Students will collect points as they traverse each stage and these points will be used as a timer for the final stage.

*Note: the equations are determined by block. For example, sodium phosphide (Na3P) would look like this in the Ionic World game:



Stage 1 (starting coordinates 1274, 63, 12)



Welcome to Ionic World! Your goal is to complete all four stages and accumulate as many points as you can. Stage 1 requires you to collect element blocks from the town behind you. Then place those blocks in the correct order beside each compound sign behind me. Good luck! 22 pts. possible

Stage 1

Students will be asked questions about the following elements:

- Sodium
- Bromine

- Potassium
- Iodine
- Phosphorus
- Calcium
- Oxygen

Students will have to know the equation for the following compounds:

- Sodium bromide
- Potassium iodide
- Sodium phosphide

• Calcium oxide

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- Lithium sulfide
- Calcium chloride
- Magnesium chloride
- Aluminum fluoride

- Lithium
- Sulfur
- Magnesium
- Chlorine
- Fluorine

Stage 2 (starting coordinates 352, 64, 426)

Stage 2



Stage 2 will require you to defeat those pillagers using your chemistry skills. We learned that the pillagers locked their fortress and it can only be opened using the right element blocks in the right order. All four compounds must be completed in order for the door to open. Find the blocks in piles according to their charge. Good luck! 26pts.

Students will need to know the charges of the following elements:

- Lithium
- Hydrogen

- Barium
- Iron
- Strontium
- Aluminum
- Lead

Students will have to know the equation for the following compounds:

- Barium nitride
- Lithium sulfide
- Aluminum fluoride
- Stage 3 (starting coordinates 411, 63, 1041)



I am here to let you know that the pillagers already destroyed this village. They stole all the polyatomics from the villagers and are planning on making something....these villagers will pay you in points for every question you answer correctly. You will use these points in Stage 4! 20 pts.

Stage 3

Students will need to know information about the following:

- Hydrochloric acid
- Sodium chloride
- Hydroxide

- Diamonds (elements that make it up)
- Chlorate
- Acetate
- Bicarbonate
- Ammonium

Iodine

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- Fluorine
- Sulfur
- Oxygen
- Nitrogen
- Hydrogen oxide
- Lead oxide
- Iron II nitride
- Strontium fluoride

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Stage 4 (starting coordinates -1446, 65, -434)



Stage 4 is a speed round. Students will choose the path (there are several), of the correct compound trail in order to get to the evil pillager machine in time to stop it. As soon as students press the "I'm ready!" button they will receive an extra 45 seconds (in addition to the points they have accumulated), the barrier block will be removed and the race begins. They will need to answer three questions at the end of the trail, before their time runs out, to stop the machine.

