

Name: _____

Period: _____

HW3:5 Practice with Ions
Mr. Murray, IPC
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Assigned: Wed., 10/18 and Thurs., 10/19
Due: Fri., 10/20 and Mon., 10/23

1. How many electrons does O^{2-} gain or lose?
2. The number on the Oxygen, is it the oxidation number or number of valence electrons?
3. Find the number of electrons Magnesium tends to gain or lose?
4. How many electrons does Argon gain or lose?
5. What kind of bond combines metals and nonmetals?
6. What kind of bond combines two nonmetals?
7. What kind of bond combines two metals?
8. What kind of bond combines Lithium and Chlorine?
9. What kind of bond combines Oxygen and Fluorine?
10. What kind of bond will combine with Helium?
11. How many electrons does Lithium gain or lose?
12. How many electrons does Oxygen gain or lose?
13. How many Lithiums combined with one Oxygen?
14. How many Magnesiums combined with one Oxygen?

From using the Atom Kits:

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15. Which kind of compounds use prefixes?
 16. Name this compound: CO_2
 17. Name this compound: $CaCl_2$
(From the Kingdom's Chart)
 18. Which kingdom has both plant-like and animal-like organisms?
 19. Which kingdom contains viruses?
 20. How do fungi eat?
 21. Are heterotrophic organisms consumers or producers?
 22. Are plants heterotrophic?
 23. Which kingdom has organisms with only one cell and respire without oxygen?

Actual TAKS Question:

Organism A: Eukaryotic, photosynthetic, nonvascular, gametophytes larger than sporophytes

Organism B: Eukaryotic, heterotrophic, nonvascular, reproduces with spores

Organism C: Eukaryotic, photosynthetic, vascular, sporophytes larger than gametophytes

Organism D: Eukaryotic, photosynthetic, vascular, reproduces with seeds.

22. According to the above information, 3 of these organisms should be placed in the same kingdom. Which of the above organisms should be placed in a different kingdom?