

Name \_\_\_\_\_  
AP Chapter 8 Bonding



In this activity we will learn how to draw Lewis structures, calculate formal charge and examine resonance. We will also observe the Octet rule and exceptions to this rule.

### AP Chem. Lewis Dot Structure Worksheet

**Write Lewis Dot Structures and calculate the formal charges for the following compounds:**

- |                              |                                     |
|------------------------------|-------------------------------------|
| 1. $\text{SO}_2$             | 18. $\text{H}_2\text{O}_2$          |
| 2. $\text{CO}_3^{2-}$        | 19. $\text{C}_2\text{H}_6$          |
| 3. $\text{NH}_3$             | 20. $\text{CH}_3\text{OH}$          |
| 4. $\text{CH}_4$             | 21. $\text{C}_2\text{H}_4$          |
| 5. $\text{H}_2$              | 22. $\text{C}_4\text{H}_{10}$       |
| 6. $\text{HF}$               | 23. $\text{C}_2\text{H}_5\text{OH}$ |
| 7. $\text{H}_2\text{O}$      | 24. $\text{ClO}^-$                  |
| 8. $\text{N}_2$              | 25. $\text{H}_2\text{S}_2$          |
| 9. $\text{HCl}$              | 26. $\text{HNO}_3$                  |
| 10. $\text{H}_2\text{S}$     | 27. $\text{H}_2\text{SO}_4$         |
| 11. $\text{PF}_3$            | 28. $\text{CH}_3\text{NO}_2$        |
| 12. $\text{CH}_3\text{COOH}$ | 29. $\text{C}_2\text{H}_2$          |
| 13. $\text{NH}_4^+$          | 30. $\text{ClO}_2^-$                |
| 14. $\text{NO}_2^-$          | 31. $\text{PO}_4^{3-}$              |
| 15. $\text{SO}_4^{2-}$       | 32. $\text{CO}$                     |
| 16. $\text{NO}_2^+$          | 33. $\text{CO}_2$                   |
| 17. $\text{OH}^-$            |                                     |

# Lewis Dot Structures Worksheet Answers

**Daniel P. Shepardson**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

## **Lewis Dot Structures Worksheet Answers:**

*Merrill Chemistry* Robert C. Smoot, Smoot, Richard G. Smith, Jack Price, 1998      *Assessment in Science* Daniel P. Shepardson, 2001-07-31 A resource for administrators and staff developers interested in designing professional development programs and for science teachers looking for techniques and examples of classroom based assessments      *Teaching Secondary Science Through Play* Christopher Harris, Patricia Harris, Ph.D., 2015-01-15 This book provides broad support for using games in middle and high school science classes including Earth science living environment biology chemistry and physics The lesson plans and resources support a play based approach to evolution ecosystems cellular organisms elements and compounds and vector motion Though easy to learn the included games provide detailed scientific accuracy allowing complex simulations and immersive learning experiences Games Evolution Dominic Crapuchettes Dmitry Knorre Sergey Machin North Star Games 2014 Strain Avrom Tobias HungryRobot 2011 Compounded Darell Louder Dice Hate Me Games 2013 Bolide Alfredo Genovese Rio Grande Games 2005      *Popular Mechanics* ,2000-01 Popular Mechanics inspires instructs and influences readers to help them master the modern world Whether it's practical DIY home improvement tips gadgets and digital technology information on the newest cars or the latest breakthroughs in science PM is the ultimate guide to our high tech lifestyle      Index to Media and Materials for the Mentally Retarded, Specific Learning Disabled, Emotionally Disturbed National Information Center for Special Education Materials, 1978

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