

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Period: \_\_\_\_\_

## Element vs. Compound

- |  |                   |   |                     |
|--|-------------------|---|---------------------|
| 1. _____ H                             | Hydrogen          | 17. _____ Cl                              | Chlorine            |
| 2. _____ H <sub>2</sub>                | Hydrogen gas      | 18. _____ Cl <sub>2</sub>                 | Chlorine gas        |
| 3. _____ H <sub>2</sub> O              | Water             | 19. _____ HCl                             | Hydrochloric acid   |
| 4. _____ H <sub>2</sub> O <sub>2</sub> | Hydrogen peroxide | 20. _____ Na                              | Sodium              |
| 5. _____ HI                            | Hydroiodic acid   | 21. _____ NaCl                            | Sodium chloride     |
| 6. _____ C                             | Carbon            | 22. _____ Fe                              | Iron                |
| 7. _____ CO <sub>2</sub>               | Carbon dioxide    | 23. _____ FeCl <sub>2</sub>               | Iron (II) chloride  |
| 8. _____ CH <sub>4</sub>               | Methane           | 24. _____ Li <sub>2</sub> CO <sub>3</sub> | Lithium carbonate   |
| 9. _____ O                             | Oxygen            | 25. _____ K                               | Potassium           |
| 10. _____ O <sub>2</sub>               | Oxygen gas        | 26. _____ KOH                             | Potassium hydroxide |
| 11. _____ N                            | Nitrogen          | 27. _____ Ne                              | Neon                |
| 12. _____ N <sub>2</sub>               | Nitrogen gas      | 28. _____ He                              | Helium              |
| 13. _____ NH <sub>3</sub>              | Ammonia           | 29. _____ Xe                              | Xenon               |
| 14. _____ F                            | Fluorine          | 30. _____ Ar                              | Argon               |
| 15. _____ F <sub>2</sub>               | Fluorine gas      | 31. _____ Rn                              | Radon               |
| 16. _____ HF                           | Hydrofluoric acid | 32. _____ Kr                              | Krypton             |

33. \_\_\_\_\_ T/F Pure substances are either elements or compounds

34. Define atom: \_\_\_\_\_

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35. Explain the difference between an element and a compound using the vocabulary term "atom."

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