

# ION SEARCH

Find the names of the ions below. The names may be spelled forward or backward. Elements that have more than one ion charge are given their traditional names:  $\text{Cu}^+$ , for example, would be called *cuprous*, not *copper (I)*.

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|------------------------------------|------------------------------|--------------------|
| $\text{NH}_4^+$                    | $\text{Cu}^{2+}$             | $\text{Fe}^{2+}$   |
| $\text{Sn}^{2+}$                   | $\text{Fe}^{3+}$             | $\text{H}^-$       |
| $\text{C}_2\text{H}_3\text{O}_2^-$ | $\text{ClO}_3^-$             | $\text{ClO}_2^-$   |
| $\text{ClO}^-$                     | $\text{HCO}_3^-$             | $\text{MnO}_4^-$   |
| $\text{NO}_3^-$                    | $\text{NO}_2^-$              | $\text{OH}^-$      |
| $\text{SCN}^-$                     | $\text{C}_2\text{O}_4^{2-}$  | $\text{CO}_3^{2-}$ |
| $\text{CrO}_4^{2-}$                | $\text{Cr}_2\text{O}_7^{2-}$ | $\text{O}_2^{2-}$  |
| $\text{SiO}_3^{2-}$                | $\text{SO}_3^{2-}$           | $\text{SO}_4^{2-}$ |
| $\text{PO}_4^{3-}$                 | $\text{CN}^-$                | $\text{N}^{3-}$    |

Puzzle by Linda Padwa  
Earl L. Vandermeulen High School  
Port Jefferson, N.Y.

D I C H R O M A T E S E A I P  
C I R P U C H L O R A T E U E  
A M M O N I U M N O T A D P R  
C Y A N I D E X F E R R I C M  
E D N F E R R O U S O T R M A  
T O M I T H Y D R O X I D E N  
A U E T A C I L I S A N Y T G  
T S P E R O X I D E L I H A A  
E T I R O L H C H E A T C F N  
D A E T I F L U S D T R D L A  
I N S C H R O M A T E I M U T  
R N B I C A R B O N A T E S E  
T O C A R B O N A T E E H A X  
I U P B E T A N A Y C O I H T  
N S O G P H O S P H A T E P H  
B S E T I R O L H C O P Y H N

