

## It's Elementary — March Madness

March Madness is upon us! Your students are probably already working on their next assignment in brachyotology, predicting the Gold for the NCAA Basketball Tournament. (Although the word doesn't appear in Webster's, there is an article on brachyotology on Wikipedia, so it must be real.) Let's apply the principles of brachyotology to the properties of the elements. The competition among the 64 elements is still, and there is a wealth of information for students to research, in this "elementary" version of March Madness!

### Review of Element Properties

Define each of the following properties of the elements and briefly describe any periodic trend in the property across a row or down a column in the periodic table.

- Ionization energy
- Atomic radius

### Tournament Rules

Here are the rules for predicting the winners in each round of *It's Elementary—March Madness*. In the event of a tie in the properties of two competing elements in any round of the tournament, the element with the larger atomic mass always wins.

- First round: Research the date of discovery of each element. In each bracket, the element that was discovered earlier in its *five element period* wins and proceeds to the second round. If an element has been known since ancient times, assign it a discovery date of zero.
- Second round: Compare the ionization energy of the elements in each bracket. The element with the higher ionization energy is the winner and advances to the Sweet 16.
- Third round (Sweet 16): Compare the group numbers of the elements—the winner is the element with the larger group number using the International (IUPAC) system (Groups 1–18).
- Fourth round: The element with the larger atomic radius wins this round and earns a trip to the Final Four. Use the atomic covalent radius only, not the van der Waals radius.
- Semifinals (Final Four): Solve the following riddles to determine the two elements that will compete for the championship.
  - The "salt-maker" is also a salt-maker when its atoms salt is scattered into clouds.
  - Once a redox and once for services rendered, the top of this element is with a tie in octahedral expansion.
- Finals: It's often said that there's no \_\_\_\_\_ in tennis, but it is the winner in this field!

### Connecting to the National Standards

This laboratory activity relates to the following National Science Education Standards (1996):

**Designing Concepts and Processes: Grades 8–12**

Systems, order, and organization.

**Content Standards: Grades 8–12**

Content Standard B: Physical Science, structure of atoms, structure and properties of matter.

### References

- John Emsley, *Nature's Building Blocks*, Oxford University Press, Oxford, England (2001).  
 WebElements™ Periodic Table, <http://www.webelements.com> (accessed February 2015).  
 Flinn Scientific, Periodic Table of the Elements, Catalog No. AP9828.

# Flinn Science March Madness Table Answer Key

**ML Morrison**



**Flinn Science March Madness Table Answer Key:**

## **Flinn Science March Madness Table Answer Key** Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the energy of words has become more evident than ever. They have the ability to inspire, provoke, and ignite change. Such is the essence of the book **Flinn Science March Madness Table Answer Key**, a literary masterpiece that delves deep in to the significance of words and their impact on our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall affect readers.

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