

It's Elementary — March Madness

March Madness is upon us! Your students are probably already working on their next assignment in brachnology, predicting the field for the NCAA Basketball Tournament. (Although the word doesn't appear in Webster's, there is an article on brachnology on Wikipedia, so it must be real.) Let's apply the principles of brachnology 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 *life* (see 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.
 - This "salt-maker" is also a mineralizer where its white salt is scattered into clouds.
 - Once a sulfide and once for services rendered, the ion of this element is now a life or comatose (place) representative.
- 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 K–12

Systems, order, and organization.

Content Standards: Grades 9–12

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

References

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Flinn Science March Madness Table Answer Key

Lingjun Ying



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Decoding **Flinn Science March Madness Table Answer Key**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Flinn Science March Madness Table Answer Key**," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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Table of Contents Flinn Science March Madness Table Answer Key

1. Understanding the eBook Flinn Science March Madness Table Answer Key
 - The Rise of Digital Reading Flinn Science March Madness Table Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Flinn Science March Madness Table Answer Key
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Flinn Science March Madness Table Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Flinn Science March Madness Table Answer Key
 - Personalized Recommendations
 - Flinn Science March Madness Table Answer Key User Reviews and Ratings

- Flinn Science March Madness Table Answer Key and Bestseller Lists
- 5. Accessing Flinn Science March Madness Table Answer Key Free and Paid eBooks
 - Flinn Science March Madness Table Answer Key Public Domain eBooks
 - Flinn Science March Madness Table Answer Key eBook Subscription Services
 - Flinn Science March Madness Table Answer Key Budget-Friendly Options
- 6. Navigating Flinn Science March Madness Table Answer Key eBook Formats
 - ePub, PDF, MOBI, and More
 - Flinn Science March Madness Table Answer Key Compatibility with Devices
 - Flinn Science March Madness Table Answer Key Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Flinn Science March Madness Table Answer Key
 - Highlighting and Note-Taking Flinn Science March Madness Table Answer Key
 - Interactive Elements Flinn Science March Madness Table Answer Key
- 8. Staying Engaged with Flinn Science March Madness Table Answer Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Flinn Science March Madness Table Answer Key
- 9. Balancing eBooks and Physical Books Flinn Science March Madness Table Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Flinn Science March Madness Table Answer Key
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Flinn Science March Madness Table Answer Key
 - Setting Reading Goals Flinn Science March Madness Table Answer Key
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Flinn Science March Madness Table Answer Key
 - Fact-Checking eBook Content of Flinn Science March Madness Table Answer Key
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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