

Quarterly Science Benchmark Assessment Physical Science Answers Study Guide

quarterly science benchmark assessment physical science answers are an essential resource for educators, students, and parents aiming to understand and improve student performance in physical science. These assessments are designed to evaluate students' understanding of fundamental concepts in physical science, including matter, energy, motion, and forces. Accurate answers and thorough explanations are vital for identifying areas where students excel or need additional support. In this comprehensive guide, we will explore the importance of these assessments, strategies for utilizing answers effectively, and best practices for maximizing student learning outcomes in physical science.

Understanding Quarterly Science Benchmark Assessments in Physical Science

What Are Quarterly Science Benchmark Assessments?

Quarterly science benchmark assessments are periodic evaluations administered throughout the school year. They serve as checkpoints to measure students' progress in mastering key physical science concepts. These assessments typically align with state standards and curriculum frameworks, ensuring consistency and relevance.

Key features include:

- Conducted four times a year (quarterly)
- Cover core physical science topics
- Designed to assess knowledge, reasoning, and application skills
- Aid in data-driven instruction and curriculum adjustments

The Purpose of Physical Science Benchmark Answers

Providing accurate and detailed answers to these assessments helps:

- Teachers evaluate student understanding objectively
- Students receive clear explanations for correct and incorrect responses
- Parents support learning at home

- Schools analyze overall curriculum effectiveness

Importance of Accurate Answers in Physical Science Assessments

Enhancing Student Learning

Accurate answers serve as a learning tool by:

- Clarifying misconceptions
- Reinforcing correct scientific principles
- Offering step-by-step explanations for problem-solving questions

Supporting Data-Driven Instruction

Assessment answers enable teachers to:

- Identify common areas of difficulty
- Tailor instruction to meet student needs
- Track progress over time

Boosting Confidence and Motivation

When students see clear, correct answers, they gain confidence in their understanding, which can motivate further engagement and effort.

Key Topics Covered in Physical Science Benchmark Assessments

Physical science assessments typically encompass a broad range of topics, including:

- **Matter and Its Properties:** states of matter, physical and chemical changes, properties of substances
- **Atoms and Elements:** atomic structure, periodic table, elements and compounds
- **Energy:** forms of energy, conservation of energy, energy transfer
- **Motion and Forces:** speed, velocity, acceleration, Newton's laws
- **Waves and Light:** properties of waves, reflection, refraction, electromagnetic spectrum
- **Electricity and Magnetism:** circuits, conductors, magnetic fields

How to Use Physical Science Benchmark Answers Effectively

For Teachers

Teachers can leverage benchmark answers to:

- Develop targeted lesson plans
- Create review sessions focused on common misconceptions
- Design formative assessments to reinforce learning
- Communicate progress to students and parents

For Students

Students should:

- Review answers to understand mistakes
- Use explanations to deepen conceptual understanding
- Practice similar problems to reinforce learning
- Prepare for upcoming assessments with confidence

For Parents

Parents can support their children by:

- Reviewing assessment answers together
- Encouraging active discussion about science concepts
- Providing additional practice resources
- Celebrating successes and identifying areas for improvement

Best Practices for Finding and Using Physical Science Benchmark Answers Online

Where to Find Reliable Benchmark Answers

A variety of resources offer accurate and comprehensive answers:

- Official school or district websites
- Educational publisher websites
- Certified tutoring platforms

- Science education blogs and forums

Tips for ensuring accuracy:

- Verify the source's credibility
- Cross-reference answers with trusted science textbooks
- Look for detailed explanations accompanying answers

Optimizing SEO for Physical Science Answer Resources

To ensure that educators and students find the most useful resources, optimize your search with relevant keywords:

- "Quarterly science benchmark assessment physical science answers"
- "Physical science assessment key"
- "Grade 8 science practice tests with answers"
- "Physical science test answer key"
- "Best resources for science quiz answers"

Including these keywords in your content, metadata, and headings increases visibility in search engine results.

Sample Physical Science Questions and Answers

Question 1: Properties of Matter

Q: What is the difference between a physical change and a chemical change?

A: A physical change alters the form or appearance of a substance without changing its composition (e.g., melting ice). A chemical change results in the formation of a new substance with different properties (e.g., burning wood).

Question 2: Newton's Laws of Motion

Q: According to Newton's second law, what is the relationship between force, mass, and acceleration?

A: Force equals mass times acceleration ($F = ma$). This means that the force applied to an object is directly proportional to its mass and the acceleration produced.

Question 3: Energy Conservation

Q: When a roller coaster reaches the top of a hill, what types of energy does it have?

A: It has maximum potential energy due to its height and some kinetic energy if it is moving. As it descends, potential energy converts into kinetic energy.

Conclusion: Leveraging Physical Science Answers for Academic Success

Access to accurate quarterly science benchmark assessment physical science answers is a valuable tool for fostering student success in science education. Whether you are a teacher aiming to enhance instructional strategies, a student preparing for assessments, or a parent supporting home learning, understanding how to find and utilize these answers effectively is essential. Remember, the goal is not only to memorize answers but to deepen understanding of fundamental physical science concepts. By integrating detailed explanations and targeted practice, students can develop confidence and competence in physical science, paving the way for academic achievement and a lifelong interest in science.

Key takeaways:

- Use accurate answer keys to identify strengths and weaknesses
- Incorporate explanations to reinforce learning
- Seek out reputable sources for assessment answers
- Optimize online searches with targeted keywords
- Engage actively with science concepts through practice and discussion

Empowered with the right resources and strategies, students and educators can turn quarterly assessments into opportunities for growth and discovery in physical science.

Quarterly Science Benchmark Assessment Physical Science Answers serve as vital tools for educators, students, and parents aiming to gauge understanding of core physical science concepts. These assessments are typically administered every three months to evaluate students' grasp of fundamental principles, foster academic growth, and identify areas needing reinforcement. Providing accurate quarterly science benchmark assessment physical science answers not only streamlines grading but also offers insights into curriculum effectiveness and student comprehension levels. In this article, we will explore a comprehensive guide to understanding, preparing for, and utilizing these assessments effectively.

Understanding the Purpose of Quarterly Science Benchmark Assessments

Quarterly science benchmark assessments are designed with several key objectives:

- Measure student understanding of physical science concepts aligned with grade-level standards.
- Identify learning gaps early in the academic year, allowing targeted interventions.
- Monitor progress over time to inform instruction and curriculum adjustments.
- Prepare students for standardized testing and future academic challenges.

By focusing on physical science?covering topics such as matter, energy, forces, and motion?these assessments help educators ensure students are building a solid foundation in scientific reasoning and application.

Components of the Physical Science Benchmark Assessment

Typically, a quarterly physical science assessment includes various question types to evaluate different skills:

Multiple Choice Questions

- Test knowledge of definitions, concepts, and facts.
- Assess recognition and recall abilities.

True/False Questions

- Evaluate understanding of scientific statements.
- Require critical thinking about scientific accuracy.

Short Answer Questions

- Require students to explain concepts in their own words.
- Assess comprehension and ability to articulate scientific reasoning.

Application and Problem-Solving Questions

- Present real-world scenarios or experiments.
- Evaluate the ability to apply concepts to practical situations.

Common Topics Covered in Physical Science Benchmarks

Physical science assessments generally encompass key topics such as:

- Properties of Matter: states of matter, physical and chemical properties.
- Atoms and Elements: basic atomic structure, periodic table.
- Energy: forms of energy, energy transfer, conservation.
- Forces and Motion: Newton's Laws, gravity, friction, momentum.
- Simple Machines: pulleys, levers, inclined planes.
- Waves and Sound: wave properties, sound production.
- Electricity and Magnetism: circuits, magnetic fields.

Understanding these core areas helps in reviewing and preparing for assessments effectively.

How to Find and Use Quarterly Science Benchmark Assessment Physical Science Answers

Accessing the Answers

Most educational districts or schools provide answer keys or scoring guides for benchmark assessments. These resources are often distributed to teachers for grading or to students for self-assessment. It's important to verify that the answers align with the version of the assessment administered.

Using Answers for Effective Feedback

- Immediate Feedback: Use answer keys to quickly identify incorrect responses, enabling timely remediation.
- Data Analysis: Aggregate student scores to identify patterns or common misconceptions.
- Instructional Planning: Adjust lesson plans based on areas where students performed poorly.

Addressing Common Challenges

- Misinterpretation of Questions: Encourage students to read questions carefully.
- Misunderstanding Concepts: Reinforce topics with hands-on experiments or visual aids.
- Test Anxiety: Promote a growth mindset and stress management strategies.

Strategies for Preparing Students for Physical Science Benchmark Assessments

Review Key Concepts Regularly

Implement periodic review sessions focusing on the major topics, using practice questions similar to those in the assessments.

Use Practice Tests and Sample Questions

Providing students with practice assessments helps familiarize them with the format and question styles.

Incorporate Hands-On Activities

Experiments and demonstrations deepen understanding, especially in topics like forces, energy, and matter.

Encourage Critical Thinking and Explanation

Ask students to explain their reasoning to reinforce comprehension and prepare them for short-answer questions.

Provide Study Guides and Resources

Curate concise summaries, diagrams, and vocabulary lists to support independent study.

Analyzing and Interpreting Assessment Results

Item Analysis

- Identify Difficult Questions: Questions answered correctly by less than 70% of students may indicate concepts needing reteaching.
- Spot Trends: Look for patterns in incorrect responses to target specific misconceptions.

Student Performance Profiles

- Use individual scores to provide personalized feedback.
- Recognize high-achieving students and those who need extra support.

Curriculum Effectiveness

- Evaluate overall class performance to determine if instructional strategies are effective.
- Adjust pacing, topics, or teaching methods accordingly.

Best Practices for Educators and Parents

For Educators

- Integrate assessment review into regular instruction.
- Use answer keys as a teaching tool, not just for grading.
- Foster a classroom environment that values growth and learning from mistakes.

For Parents

- Review assessment results with your child to understand their strengths and challenges.
- Support homework and study routines centered around key physical science concepts.
- Encourage curiosity and questions about everyday phenomena.

Conclusion: Maximizing the Value of Quarterly Science Benchmark Assessments

Quarterly science benchmark assessment physical science answers are more than just solutions?they are a window into student understanding and an opportunity for targeted instruction. By leveraging these answers effectively, educators can refine their teaching strategies, and students can deepen their grasp of physical science principles. Regular review, practice, and analysis foster an environment of continuous improvement, ensuring that students develop not only knowledge but also scientific thinking skills essential for future success.

Remember, the ultimate goal of these assessments is to inspire curiosity, promote critical thinking, and cultivate a lifelong appreciation for science. With diligent preparation and thoughtful use of assessment data, educators and parents can help students excel in physical science and lay a strong foundation for their scientific education journey.

QuestionAnswer What is the purpose of the quarterly science benchmark assessment in physical science? The purpose of the quarterly science benchmark assessment is to evaluate students' understanding of key physical science concepts, monitor their progress throughout the year, and identify areas needing additional instruction. Where can I find the official answers for the quarterly physical science benchmark assessments? Official answers are usually provided by the assessment publisher or your school district's assessment resources. Teachers can access answer keys through educator portals or the official testing platform. How should students prepare for the quarterly physical science benchmark assessment? Students should review their class notes, complete

practice questions, understand key concepts like matter, energy, and forces, and participate in review sessions led by their teachers. Are the answers to the quarterly physical science assessments available online? Official answer keys are typically available only to educators and school administrators. Students should focus on studying the material rather than seeking answer keys online to ensure academic integrity. What are some common topics covered in the quarterly physical science benchmark assessment? Common topics include properties of matter, states of matter, basic principles of energy, forces and motion, and simple chemical reactions. How can teachers effectively use the answers from the quarterly assessment to improve instruction? Teachers can analyze student performance data from the answer keys to identify misconceptions, adjust lesson plans, and provide targeted interventions for areas where students struggle. Is it appropriate for students to use answer keys during their preparation for the assessment? While reviewing answer keys can help understand correct responses, students should primarily focus on mastering the concepts and practicing problem-solving rather than relying solely on answer keys. How often are the quarterly physical science benchmark assessments administered? These assessments are typically administered every quarter, or four times a year, to track student progress over the course of the academic year.

Related keywords: physical science, science assessment answers, quarterly science test, science benchmark solutions, physical science quiz answers, science exam key, quarterly science assessment key, physical science practice answers, science test solutions, quarterly science benchmark key

Isaac asimov great science writers

Isaac Asimov Great Science Writers: A Legacy of Scientific Literacy and Imagination

Isaac Asimov is widely recognized as one of the most influential and prolific science writers of the 20th century. His contributions to popular science, science fiction, and education have left an indelible mark on both the scientific community and the general public. As a towering figure among great science writers, Asimov's ability to communicate complex scientific ideas with clarity, enthusiasm, and wit has inspired countless readers and shaped public understanding of science. This article explores the life, works, and enduring legacy of Isaac Asimov as a great science writer, highlighting his influence on science communication and his contributions to science literature.

Early Life and Background

Born on January 2, 1920, in Petrovichi, Russia, Isaac Asimov emigrated with his family to the United States at a young age. Settling in Brooklyn, New York, Asimov developed an early fascination with

reading and learning. His passion for science and literature grew rapidly, leading him to pursue biochemistry at Columbia University, where he earned his Ph.D. in 1948. This scientific background provided the foundation for his later writings, allowing him to interpret and communicate scientific principles with authority and insight.

Isaac Asimov as a Great Science Writer

Bridging Science and the Public

One of Asimov's greatest strengths was his ability to bridge the gap between complex scientific research and everyday understanding. He believed that science should be accessible and enjoyable, and he dedicated much of his career to making science comprehensible to the general public. His writing style combined clarity with enthusiasm, often infusing humor and storytelling to captivate readers.

Prolific Output and Range of Topics

Isaac Asimov authored over 500 books and numerous essays, covering a vast array of subjects beyond science, including history, religion, literature, and philosophy. His extensive bibliography demonstrates his versatility and commitment to education. Among his most notable works are science books such as *The Intelligent Man's Guide to Science*, *Asimov's New Guide to Science*, and *Understanding Physics*.

Key Qualities of Asimov's Science Writing

- **Clarity:** Simplifying complex ideas without losing essential details.
- **Engagement:** Using storytelling, anecdotes, and humor to draw readers in.
- **Accuracy:** Maintaining scientific integrity and rigor in explanations.
- **Inspiration:** Encouraging curiosity and critical thinking about science.

Major Works and Contributions

Popular Science Books

Isaac Asimov's popular science books are considered classics in science communication. Some of his most influential titles include:

- **The Intelligent Man's Guide to Science (1960):** An extensive overview of scientific principles and discoveries, designed for the layperson.

- **Asimov's New Guide to Science (1984):** An updated, comprehensive survey of scientific knowledge spanning physics, chemistry, biology, and astronomy.
- **Understanding Physics (1966):** An accessible introduction to the fundamental principles of physics, written in a clear and engaging style.
- **Understanding Chemistry (1977):** Simplifies complex chemical concepts for general readers.

Science Fiction and Its Role in Science Communication

While best known for his science fiction, Asimov's stories often reflected his scientific knowledge and curiosity. His Foundation series and Robot series not only entertained but also explored themes like robotics, artificial intelligence, and societal evolution?topics that continue to be relevant today. His fiction served as a vehicle to stimulate interest in science and technology among readers worldwide.

Educational and Reference Works

In addition to books for general audiences, Asimov authored textbooks and reference materials used in academic settings. His clear explanations and systematic approach have made his works valuable educational resources.

Impact and Legacy

Influence on Science Communication

Isaac Asimov revolutionized the way science is communicated. His ability to translate scientific jargon into engaging narratives inspired future generations of science writers, educators, and communicators. His works helped foster scientific literacy and skepticism, encouraging society to value evidence-based reasoning.

Inspiration for Future Writers

Many contemporary science writers cite Asimov as a primary influence. His success demonstrated that scientific topics could be made accessible and fascinating, paving the way for authors like Carl Sagan, Stephen Jay Gould, and Bill Bryson.

Recognition and Honors

Throughout his life, Asimov received numerous awards, including the Hugo, Nebula, and Bram Stoker Awards, as well as the Presidential Award for Science Writing. His prolific output and dedication to education have cemented his reputation as a great science writer.

Why Isaac Asimov Remains a Model for Science Writers Today

- **Passion for Science:** His genuine curiosity and enthusiasm are contagious.
- **Clarity of Explanation:** His ability to break down complex ideas remains a benchmark.
- **Versatility:** His writings span many disciplines, demonstrating the interconnectedness of knowledge.
- **Humor and Storytelling:** Making learning enjoyable and memorable.

Conclusion

Isaac Asimov's legacy as a great science writer endures because of his exceptional talent for communicating science in a way that is accessible, engaging, and inspiring. His works continue to educate and entertain, fostering curiosity and understanding about the universe we live in. As we look to the future of science communication, Asimov's example serves as a reminder that effective storytelling, clarity, and passion are essential tools for making science accessible to all. His contributions have not only shaped scientific literacy but also ignited the imaginations of countless readers, ensuring his place among the greatest science writers of all time.

Isaac Asimov: Great Science Writers and the Legacy of a Scientific Luminary

When contemplating the pantheon of science writers who have profoundly influenced both scientific literacy and popular understanding of complex concepts, Isaac Asimov stands out as a towering figure. His prolific output, clarity of explanation, and ability to intertwine scientific rigor with engaging storytelling cement his place among the greatest science writers of all time. Asimov's work not only demystified the intricacies of science but also inspired countless individuals to pursue scientific inquiry, making him an enduring figure in both literature and science communication.

Early Life and Intellectual Foundations

Understanding Asimov's contributions begins with an appreciation of his background. Born in 1920 in Russia and emigrating to the United States as a child, Asimov grew up in Brooklyn, New York. His early fascination with science and reading, fostered by a childhood immersed in science fiction magazines and books, laid the groundwork for his later pursuits. Self-educated through voracious reading, he developed a broad knowledge base that would underpin his extensive writing career.

His academic pursuits culminated in a Ph.D. in biochemistry from Columbia University. This scientific training provided him with a solid foundation in the scientific method, critical thinking, and the ability to communicate complex ideas with precision and clarity—traits that defined his writing style.

Asimov's Approach to Science Communication

Clarity and Accessibility

One of Asimov's defining characteristics as a science writer was his unparalleled ability to explain complex scientific concepts in simple, accessible language. Unlike technical journals or dense textbooks, his writings aimed to reach the general reader without sacrificing accuracy. This approach made science appealing and comprehensible, fostering curiosity among a broad audience.

He believed that science literacy was crucial for an informed society and dedicated much of his career to this cause. His explanations often employed analogies, step-by-step logical progression, and engaging narratives that bridged the gap between specialists and laypeople.

Scientific Accuracy and Rigor

While striving for accessibility, Asimov maintained rigorous scientific accuracy. His background in biochemistry and extensive research ensured that his writings reflected the current state of scientific knowledge. He was meticulous in citing sources and grounding his explanations in established science, which earned him respect from both scientists and readers.

Engagement Through Storytelling

Asimov's talent extended beyond mere explanation; he was a master storyteller. His use of anecdotes, historical context, and hypothetical scenarios made his science writing lively and memorable. This narrative style not only clarified concepts but also kept readers engaged, turning abstract ideas into compelling stories.

Major Works and Contributions

Popular Science Books

Asimov authored numerous books aimed at general audiences, making science approachable and enjoyable. Some of his most notable titles include:

- "The Intelligent Man's Guide to Science" (1960): A comprehensive overview of scientific principles, history, and developments, serving as a foundational text for general science enthusiasts.
- "Asimov's New Guide to Science" (1984): An updated and expanded version that covers advancements in physics, biology, astronomy, and more.
- "The Universe: From Flat Earth to Quasar" (1966): An accessible exploration of astronomy and

cosmology, illustrating the evolution of our understanding of the universe.

These works exemplify his ability to synthesize vast amounts of scientific knowledge into coherent narratives that educate and inspire.

Science Fiction and Its Influence

While primarily celebrated as a science communicator, Asimov's science fiction writing also contributed heavily to his status as a great science writer. His stories, especially the "Foundation" series and "Robot" series, explored themes of robotics, artificial intelligence, and societal evolution. These narratives not only entertained but also prompted philosophical and scientific debates about the future of technology.

His fiction often incorporated scientific principles, making complex ideas about robotics, ethics, and space exploration accessible and thought-provoking. This blending of storytelling with scientific speculation enhanced public interest in science and technology.

Histories and Essays

Asimov's essays and historical writings further showcase his depth as a science communicator. His series of essays covered topics like the history of science, mathematics, and medicine, highlighting the human stories behind scientific discoveries. His historical analyses, such as "The Human Brain," provided insights into how scientific understanding has evolved over centuries.

Impact and Legacy in Science Communication

Influence on Public Understanding of Science

Asimov's writings significantly contributed to the democratization of scientific knowledge. His ability to translate complex ideas into engaging narratives helped demystify science for millions. Many readers credit him with sparking their interest in science, leading some to pursue careers in the field.

His books have remained in print for decades, testament to their enduring relevance and popularity. Educational institutions often cite his works as supplementary materials for teaching science concepts.

Mentorship and Inspiration

Beyond his writings, Asimov served as a mentor and role model for aspiring science writers. His prolific output demonstrated that scientific communication could be both intellectually rigorous and widely accessible. He set a standard for clarity, enthusiasm, and integrity in science writing.

Recognition and Honors

Throughout his career, Asimov received numerous awards, including the Hugo, Nebula, and Bram Stoker Awards for his fiction, as well as accolades recognizing his contributions to science education and literature. His influence extends beyond the literary realm into science policy and education.

Critical Evaluation of Asimov's Style and Methodology

Strengths

- Clarity and Simplicity: His straightforward language made science understandable.
- Breadth of Knowledge: His multidisciplinary background allowed him to cover diverse scientific fields.
- Engagement: His storytelling kept readers invested in scientific concepts.
- Humility and Honesty: He acknowledged the limits of current knowledge and avoided sensationalism.

Limitations and Criticisms

- Some critics argue that Asimov's explanations, while clear, occasionally oversimplified nuanced scientific debates.
- His focus on established science sometimes limited his exploration of speculative or controversial ideas.
- Asimov's style, while accessible, was sometimes viewed as dry or lacking in emotional depth compared to other writers.

Despite these criticisms, his overall contribution remains monumental, and his impact on science communication is undeniable.

Conclusion: The Enduring Legacy of Isaac Asimov as a Great Science Writer

Isaac Asimov's towering legacy as a great science writer stems from his unparalleled ability to communicate scientific ideas with clarity, enthusiasm, and integrity. His writings have educated generations, inspired scientific curiosity, and bridged the gap between the scientific community and the public. Asimov demonstrated that science is not solely the domain of specialists but a vital part of human culture and understanding.

In an era where misinformation can spread rapidly, Asimov's model of clear, honest, and engaging

science communication remains a guiding light. His work not only enriched our knowledge of the universe but also exemplified the importance of science literacy in building a better, more informed society. As science continues to advance at an unprecedented pace, the influence of Isaac Asimov as a pioneer of science writing endures, inspiring new generations to explore, question, and understand the world through the lens of science.

Question Answer Who was Isaac Asimov and why is he considered a great science writer? Isaac Asimov was a prolific American science fiction writer and biochemist known for his clear, engaging writing style and influential works that popularized science concepts. His ability to explain complex ideas to the general public has cemented his reputation as a great science communicator. What are some of Isaac Asimov's most famous science books? Some of Isaac Asimov's most famous science books include 'The Intelligent Man's Guide to Science,' 'Asimov's New Guide to Science,' and his numerous essays and popular science articles that cover a wide range of scientific topics. How did Isaac Asimov influence science education and popular science writing? Isaac Asimov revolutionized science education by making complex scientific ideas accessible and engaging to a broad audience through his clear explanations, humor, and storytelling, inspiring countless readers and aspiring scientists. What distinguishes Isaac Asimov's science writing from other science writers? Asimov's writing is distinguished by its clarity, logical structure, and ability to simplify complex topics without sacrificing accuracy, making science approachable and enjoyable for readers of all backgrounds. In what ways did Isaac Asimov contribute to science fiction and science fact? While renowned for his science fiction, Asimov also contributed significantly to science fact through his essays, books, and articles that explained real scientific principles, bridging the gap between science fiction imagination and scientific reality. What awards and recognitions did Isaac Asimov receive for his science writing? Isaac Asimov received numerous awards including the Hugo, Nebula, and Bram Stoker Awards, as well as the Presidential Award for Excellence in Science and Engineering Communication, recognizing his outstanding contributions to science literature. Why is Isaac Asimov still relevant in the field of science writing today? Asimov's ability to communicate science clearly and engagingly remains influential, inspiring modern science writers and educators, and his works continue to serve as foundational texts for science enthusiasts and students worldwide.

Related keywords: Isaac Asimov, science fiction, science writer, futurism, robotics, astrophysics, popular science, science literature, science essays, visionary authors

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