Nc Released Science Eog Practice Test 2013 Latest Edition

nc released science eog practice test 2013 has become an essential resource for students, teachers, and parents preparing for the North Carolina End-of-Grade (EOG) Science assessments. These practice tests, released by the North Carolina Department of Public Instruction, offer invaluable insights into the format, types of questions, and content areas covered in the actual exam. For students aiming to improve their scores, understanding and utilizing the 2013 released practice test can significantly boost their confidence and readiness. In this article, we will explore the importance of the NC released science EOG practice test 2013, provide a detailed overview of its features, and offer effective strategies for using it as a study tool.

Understanding the Significance of the NC Released Science EOG Practice Test 2013

Why Practice Tests Are Crucial for EOG Preparation

Practice tests serve as a mirror to the actual exam experience, helping students familiarize themselves with the question formats and time constraints. The NC released science EOG practice test 2013 is particularly valuable because it reflects the standards and expectations set forth by the North Carolina Department of Public Instruction for that year.

Benefits of using the 2013 practice test include:

- Understanding the types of questions that may appear on the test
- Identifying key content areas and skills required
- Building test-taking confidence through repeated practice
- Tracking progress and pinpointing areas needing improvement

Historical Context and Relevance of the 2013 Practice Test

While standardized tests evolve over time, the 2013 released practice test remains a relevant resource for several reasons:

- It provides a snapshot of the assessment standards and curriculum emphasis during that year.
- Many concepts and skills tested in 2013 are still foundational in current science standards.

- Reviewing past tests helps students develop critical thinking and analytical skills applicable across grade levels.

Features of the NC Released Science EOG Practice Test 2013

Content Coverage and Standards Alignment

The 2013 practice test covers a broad spectrum of science topics aligned with the North Carolina Standard Course of Study. These include:

- Life Science: ecosystems, adaptations, and biological processes
- Physical Science: matter, energy, and forces
- Earth and Space Science: weather, Earth's systems, and celestial phenomena
- Scientific Inquiry and Process: data analysis, experimentation, and reasoning skills

This alignment ensures that students practicing with this test are revisiting the essential standards tested during that year.

Question Types and Format

The 2013 practice test features a variety of question formats designed to assess different cognitive skills:

- **Multiple Choice Questions:** The most common format, requiring students to select the best answer from several options.
- **Constructed Response:** Short-answer questions that test students? ability to explain scientific concepts or interpret data.
- **Diagram-Based Questions:** Questions that involve analyzing or completing diagrams, charts, and graphs.

Understanding these formats helps students develop effective strategies for each question type.

Sample Questions and Answer Key

The practice test includes sample questions with detailed answer keys and explanations. This allows students to:

- Check their answers and understand mistakes

- Learn reasoning processes behind correct responses
- Apply similar strategies to future questions

Strategies for Effectively Using the NC Released Science EOG Practice Test 2013

Step-by-Step Approach to Practice

To maximize the benefits of the 2013 practice test, students should follow a structured approach:

- **Initial Assessment:** Take the test under timed conditions to simulate the real exam experience.
- **Review Results:** Analyze incorrect answers and understand the reasoning behind correct responses.
- **Identify Weak Areas:** Focus on content areas or question types where errors occurred.
- **Targeted Practice:** Use additional resources, such as study guides or online tutorials, to strengthen weak skills.
- **Repeated Practice:** Retake the practice test after review to measure improvement and reinforce learning.

Additional Tips for Success

- Use the answer key and explanations to understand your mistakes thoroughly.
- Practice time management by setting strict time limits for each section.
- Make notes of recurring concepts or question patterns to review later.
- Pair practice with hands-on experiments or interactive activities to deepen understanding.
- Seek support from teachers or tutors if certain topics remain challenging.

Additional Resources to Complement the Practice Test

To enhance preparation, students should consider supplementing the 2013 practice test with other resources:

- **NC Science Standards and Curriculum Guides:** Review the official standards to ensure comprehensive understanding.
- **Online Practice Tests and Quizzes:** Use digital platforms for additional practice and immediate feedback.
- **Science Textbooks and Workbooks:** Reinforce concepts covered in the practice test.
- **Interactive Science Websites:** Engage with simulations and videos for visual learning.

Conclusion: Making the Most of the NC Released Science EOG Practice Test 2013

The **nc released science eog practice test 2013** remains a valuable tool in the arsenal of effective test preparation. By understanding its structure, content focus, and question types, students can strategically approach their studies to improve their performance. Consistent practice, thorough review, and targeted focus on weak areas are key to mastering the content and achieving success on the actual EOG Science assessment. Remember, practice tests are not just about testing knowledge?they are about building confidence and developing the skills necessary for scientific literacy and critical thinking that will serve students well beyond the exam room. Whether you're a student, parent, or educator, leveraging the 2013 released practice test can be a decisive step toward academic achievement in North Carolina?s science assessments.

NC Released Science EOG Practice Test 2013 has become a valuable resource for students, educators, and parents preparing for the North Carolina End-of-Grade (EOG) assessments. These practice tests serve as a mirror to the actual exam, providing insight into the types of questions, format, and level of difficulty students can expect. As the 2013 version of the released practice test, it offers a snapshot of the assessment standards and curriculum focus during that period, making it an essential tool for those aiming to gauge readiness and identify areas needing improvement.

In this comprehensive review, we will explore the features, benefits, limitations, and strategic uses of the NC Released Science EOG Practice Test 2013. Whether you're a teacher designing review sessions, a student preparing for the test, or a parent assisting your child, understanding the nuances of this resource can significantly enhance your study approach.

Overview of the NC Released Science EOG Practice Test 2013

The 2013 released practice test is an official document published by the North Carolina Department of Public Instruction (NCDPI). It replicates the format, content, and standards of the actual Science EOG for grades 5 and 8, providing students with a realistic preview of the assessment environment.

Key features include:

- Multiple-choice questions covering core science strands such as Life Science, Physical Science, Earth Science, and Scientific Inquiry.
- A range of question difficulties designed to challenge students at different levels.
- An answer key and scoring guide to facilitate self-assessment.
- Contextualized scenarios and data-based questions to evaluate higher-order thinking skills.

This practice test is aligned with the state's curriculum standards as of 2013, reflecting the emphasis

on scientific literacy, inquiry skills, and understanding of fundamental concepts.

Content Breakdown of the Practice Test

Core Science Strands

The 2013 practice test emphasizes a balanced coverage of the main science strands:

- Life Science: Genetics, ecosystems, adaptations, and classification.
- Physical Science: Properties of matter, energy, motion, and forces.
- Earth Science: Weather, minerals, rocks, the solar system, and Earth's processes.
- Scientific Inquiry: Designing experiments, interpreting data, and understanding the scientific method.

Question Types and Format

The practice test includes:

- Multiple-choice questions (most common).
- Data interpretation questions involving graphs, charts, and tables.
- Application-based questions that require critical thinking and analysis.
- Some questions designed to assess understanding of scientific vocabulary and concepts.

Difficulty and Cognitive Level

Questions are crafted to assess various cognitive levels, from recall of facts to application and analysis. The test aims to measure not only rote memorization but also students' ability to synthesize information and think critically about scientific phenomena.

Pros and Features of the NC Released Science EOG Practice Test 2013

Pros:

- Authentic Representation: Since it is an official released test, it closely mirrors the actual exam in question format, difficulty, and content.
- Curriculum Alignment: Reflects the standards and expectations set by North Carolina for the year 2013.

- Diagnostic Tool: Helps identify strengths and weaknesses in student understanding.
- Preparation Strategy: Facilitates familiarity with test structure, reducing test anxiety.
- Self-Assessment: The included answer key allows students and educators to evaluate performance efficiently.
- Standards-Based Learning: Encourages focus on critical concepts and inquiry skills emphasized in the curriculum.

Features:

- Clear and detailed questions aligned to grade-level expectations.
- Diversity of question types to assess different skills.
- Contextualized scenarios that promote real-world relevance.
- Scoring rubric that aids in understanding how responses are evaluated.

Limitations and Challenges

While the NC Released Science EOG Practice Test 2013 is an excellent resource, it does have some limitations:

- Outdated Content: Since standards evolve over time, some questions may not reflect the most current curriculum or scientific understanding.
- Limited Scope: As a single test, it cannot encompass the full breadth of the science curriculum.
- Potential for Overfamiliarity: Repeated use without variation may lead students to memorize answers rather than understand concepts.
- Lack of Interactive Elements: Being a static paper-based test, it doesn't provide interactive or adaptive testing experiences.
- No Immediate Feedback: Unless scored manually or through a digital platform, students may not get instant feedback to guide their studying.

Challenges for Educators:

- Ensuring that practice aligns with current standards if curriculum updates have occurred since 2013.
- Using the test as part of a broader, diverse assessment strategy rather than the sole preparation tool.

Strategic Uses of the 2013 Practice Test

To maximize its benefits, the practice test should be integrated thoughtfully into study routines:

- Diagnostic Assessment: Use the test at the start of a unit to identify students' baseline understanding.
- Targeted Review: Analyze incorrect responses to pinpoint specific misconceptions or content gaps.
- Test-Taking Skills: Practice timed sessions to improve pacing and familiarity with exam conditions.
- Curriculum Alignment: Cross-reference questions with current standards to adapt or update content coverage.
- Student Engagement: Incorporate practice tests into group activities to foster collaborative learning and discussion.

Recommendations for Effective Preparation

- Use in Conjunction with Other Resources: Combine the practice test with current textbooks, online simulations, and hands-on experiments.
- Review Explanation of Answers: Go beyond correct/incorrect to understand why an answer is right or wrong.
- Simulate Test Conditions: Practice under timed, distraction-free environments to build confidence.
- Focus on Conceptual Understanding: Prioritize understanding over memorization to perform well on application questions.
- Update Content Knowledge: Supplement with recent curriculum materials to ensure relevance.

Conclusion

The NC Released Science EOG Practice Test 2013 remains a valuable resource for North Carolina students and educators aiming for effective preparation and assessment. Its authentic format, comprehensive coverage, and diagnostic potential make it a beneficial tool, especially when used strategically within a broader study plan. While some limitations stem from its age and static nature, understanding how to leverage this resource can significantly improve student confidence and performance on the actual Science EOG.

In an era of evolving science standards, it is advisable to supplement this practice test with current resources and stay updated on curriculum changes. Nonetheless, revisiting the 2013 practice test can reinforce foundational concepts, familiarize students with test structures, and foster a deeper understanding of science principles essential for academic success and scientific literacy.

Final Thoughts: Whether you're a student aiming to ace the Science EOG, a teacher designing review sessions, or a parent supporting your child's learning journey, the NC Released Science EOG Practice Test 2013 offers a meaningful starting point. Use it wisely?as part of a comprehensive, engaging, and up-to-date preparation strategy?to build confidence and achieve your academic goals.

QuestionAnswer What topics are covered in the NC Released Science EOG Practice Test 2013? The 2013 NC Released Science EOG Practice Test covers topics such as ecosystems, energy transfer, cell functions, the scientific method, and earth systems, reflecting the standards assessed in the state science curriculum. How can students use the NC Released Science EOG Practice Test 2013 to prepare for the actual exam? Students can use the practice test to familiarize themselves with the question formats, identify areas where they need improvement, and practice time management skills to increase their confidence and performance on the real exam. Are the questions in the 2013 practice test aligned with current North Carolina science standards? While the 2013 practice test was aligned with the standards at that time, students should also review updated materials and standards, as curriculum and assessment criteria may have evolved since then. Where can I access the NC Released Science EOG Practice Test 2013? The practice test can typically be accessed through the North Carolina Department of Public Instruction website, school resources, or educational platforms that provide past assessment materials. What is the benefit of practicing with NC Released Science EOG tests from previous years like 2013? Practicing with previous years' tests helps students understand the question style, improves test-taking strategies, and provides insight into frequently tested concepts, thereby enhancing overall readiness. Are there answer keys available for the NC Released Science EOG Practice Test 2013? Yes, answer keys are often provided along with the practice tests to help students check their responses and understand the correct answers, facilitating effective self-assessment and learning.

Related keywords: North Carolina, science, EOG, practice test, 2013, exam preparation, standardized test, science assessment, study guide, test practice

Longman Active Science Science 9

Longman Active Science Science 9

Longman Active Science Science 9: A Comprehensive Guide to Engaging Science Learning

longman active science science 9 has become a popular choice among educators and

students alike for its innovative approach to teaching science at the secondary school level. Designed to ignite curiosity and deepen understanding, this textbook o?ers a blend of interactive content, real-world applications, and clear explanations that make complex scienti?c concepts accessible and enjoyable. Whether you're a teacher looking for an e?ective curriculum resource or a student eager to explore the wonders of science, Longman Active Science Science 9 stands out as a valuable tool in the educational journey.

What Makes Longman Active Science Science 9 Stand Out?

The Longman Active Science Science 9 series is carefully crafted to support active learning, encouraging students not just to memorize facts but to engage critically with the material. Unlike traditional textbooks that rely heavily on rote learning, this series incorporates inquiry-based learning strategies, hands-on experiments, and vivid illustrations that help bring science to life.

Interactive and Student-Friendly Content

One of the key strengths of Longman Active Science Science 9 is its focus on student engagement. Each chapter includes thought-provoking questions and activities that challenge learners to apply concepts rather than passively consume information. This approach fosters a deeper understanding of scienti?c principles and promotes retention.

Alignment with Curriculum Standards

Teachers appreciate that Longman Active Science Science 9 aligns well with national and regional science curricula. This alignment ensures that students are well-prepared for

examinations and meet the required learning outcomes. Moreover, the book?s structure facilitates smooth lesson planning, with clearly de?ned objectives and summaries that help reinforce learning.

Core Topics Covered in Longman Active Science Science 9

The textbook covers a broad spectrum of scienti?c disciplines, ensuring a balanced exposure to biology, chemistry, physics, and earth science. The content is organized logically to build upon prior knowledge and progressively introduce more complex ideas.

Biology: Exploring Life and Living Organisms

Students delve into the fascinating world of living organisms, studying cell structures, human anatomy, ecosystems, and biodiversity. The biology sections emphasize real-life examples and encourage students to observe nature around them, enhancing their appreciation for life sciences.

Chemistry: Understanding Matter and Its Changes

Chemistry lessons in Longman Active Science Science 9 introduce students to atoms, elements, compounds, and chemical reactions. Practical experiments and visual diagrams help demystify abstract concepts, making it easier for learners to grasp the fundamentals of chemical science.

Physics: The Laws Governing the Universe

From motion and forces to energy and waves, the physics chapters are designed to explain the natural laws that govern our world. The book uses everyday phenomena to

illustrate physical principles, helping students relate theory to the world they experience daily.

Earth Science: Studying Our Planet

The Earth science units cover topics like geology, weather, climate, and environmental issues. By understanding Earth's processes, students become more aware of the importance of sustainability and environmental stewardship.

How Longman Active Science Science 9 Enhances Learning

Beyond the core content, the textbook integrates various elements that support diverse learning styles and promote critical thinking.

Visual Aids and Illustrations

Detailed diagrams, charts, and photographs are integral to the Longman Active Science Science 9 approach. These visuals not only clarify complex ideas but also cater to visual learners who bene?t from seeing information presented graphically.

Experiments and Practical Activities

The inclusion of experiments encourages experiential learning. Students get hands-on experience that reinforces theoretical knowledge and develops scienti?c skills such as observation, hypothesis formation, and data analysis.

Vocabulary and Concept Checks

To assist with comprehension, the book highlights key scienti?c terms and provides exercises to test understanding. This feature supports language development alongside science learning, which is particularly helpful for students who are English language

learners.

Tips for Making the Most of Longman Active Science Science 9

Using Longman Active Science Science 9 e?ectively requires more than just reading the

text. Here are some strategies to maximize learning outcomes:

Engage actively with the material: Encourage note-taking, highlighting, and

1.

summarizing key points to deepen understanding.

Participate in experiments: Whenever possible, carry out the suggested practical

2.

activities to connect theory with real-world experience.

Utilize supplementary resources: Supplement the textbook with videos,

3.

interactive quizzes, and science projects to broaden exposure.

Discuss concepts: Form study groups or participate in classroom discussions to

4.

explore ideas from di?erent perspectives.

Review consistently: Regular revision of topics helps reinforce knowledge and

5.

prepares students for assessments.

Who Bene?ts Most from Longman Active Science Science 9?

Longman Active Science Science 9 caters to a wide audience but is particularly bene?cial for:

Secondary School Students

The textbook is tailored for students around the ninth-grade level, providing age-appropriate content that challenges yet supports their scienti?c learning.

Teachers Seeking a Comprehensive Curriculum

Educators ?nd the book useful for structuring lessons that cover essential science topics while fostering inquiry and critical thinking skills.

Parents Supporting Home Learning

For homeschooling families or parents wanting to supplement school learning, this series o?ers clear explanations and guided activities to facilitate science education at home.

The Role of Longman Active Science Science 9 in Modern Education

In today?s rapidly evolving educational landscape, resources like Longman Active Science Science 9 are pivotal in bridging traditional teaching methods with innovative learning approaches. The textbook?s emphasis on active participation and real-life connections aligns with contemporary pedagogical trends that value critical thinking, problem-solving, and STEM (Science, Technology, Engineering, and Mathematics) literacy.

Moreover, the book?s design supports di?erentiated instruction, allowing teachers to adapt lessons according to students? diverse abilities and interests. This ?exibility is

essential in fostering inclusive classrooms where every learner can thrive.

As technology continues to integrate into education, Longman Active Science Science 9 also complements digital tools and e-learning platforms, providing a solid foundation for blended learning environments. Interactive exercises and digital supplements associated with the textbook further enhance engagement and accessibility.

The focus on environmental science and sustainability topics within the book also re?ects a growing awareness of global challenges, preparing students to become informed citizens who can contribute thoughtfully to society.

Exploring science through Longman Active Science Science 9 opens doors to curiosity and discovery, encouraging young learners to see science not just as a subject but as a lens through which to understand the world.

Whether it?s unraveling the mysteries of cells, experimenting with chemical reactions, or studying the forces that govern motion, this textbook invites students on an exciting scienti?c adventure that builds both knowledge and enthusiasm.

In summary, Longman Active Science Science 9 o?ers a well-rounded, engaging, and e?ective resource for secondary science education. Its thoughtful design and comprehensive content make it a valuable companion for anyone eager to explore the dynamic world of science.

Question

Answer

What topics are covered in

Longman Active Science 9?

Longman Active Science 9 covers topics such as cells and

organisms, motion and forces, energy, waves, and the

environment, designed to align with the secondary school

science curriculum.

Is Longman Active Science 9

suitable for self-study?

Yes, Longman Active Science 9 is suitable for self-study

as it includes clear explanations, illustrations, and

exercises that help students understand and apply

scienti?c concepts independently.

Does Longman Active

Science 9 include practical

experiments?

Yes, the book includes various practical experiments and

activities that encourage hands-on learning and help

students develop scienti?c inquiry skills.

Are there digital resources

available with Longman

Active Science 9?

Many editions of Longman Active Science 9 come with supplementary digital resources such as interactive quizzes, animations, and teacher support materials to enhance the learning experience.

How does Longman Active Science 9 support exam preparation?

Longman Active Science 9 provides review questions, practice exercises, and summaries that help students reinforce their understanding and prepare e?ectively for science exams.

Longman Active Science Science 9: A Comprehensive Review of Its Educational Impact

longman active science science 9 represents an important resource in secondary

education, particularly for students navigating the complexities of science at the ninth-grade level. As a textbook designed to engage learners and deepen their understanding of scienti?c concepts, this edition aims to balance theoretical knowledge with practical application. This review takes a closer look at the features, content structure, pedagogical approach, and overall e?ectiveness of Longman Active Science Science 9 in meeting the needs of contemporary science education.

In-depth Analysis of Longman Active Science Science 9

The Longman Active Science Science 9 textbook is part of a well-established series that focuses on active learning methodologies. Unlike traditional science textbooks that often emphasize rote memorization, this series encourages student participation and critical thinking through experiments, inquiry-based activities, and real-world connections. This approach aligns with modern educational standards that prioritize scienti?c literacy and problem-solving skills.

One of the key components that distinguish Longman Active Science Science 9 is its structured content progression. The textbook covers core scienti?c disciplines such as physics, chemistry, biology, and earth sciences, systematically building on concepts introduced in earlier grades. This sca?olding technique ensures that students not only memorize facts but also understand underlying principles and their applications.

Content Coverage and Curriculum Alignment

Longman Active Science Science 9 is designed to align closely with national and international educational standards. The chapters address essential topics such as:

Fundamentals of matter and energy

1.

Cell biology and human physiology

2.

Forces, motion, and simple machines

3.

Environmental science and sustainability

4.

Introduction to chemical reactions and atomic structure

5.

This breadth ensures comprehensive exposure to multidisciplinary science subjects,

catering to diverse learning objectives. Additionally, the textbook integrates assessment

tools, including quizzes and review questions, which help educators gauge student

progress e?ectively.

Pedagogical Features and Learning Support

A notable feature of Longman Active Science Science 9 is its emphasis on active learning

strategies. The textbook incorporates:

Hands-on experiments: Step-by-step guides encourage students to perform

1.

experiments with readily available materials, enhancing experiential learning.

Visual aids: Detailed diagrams, illustrations, and charts support complex concepts,

2.

making them more accessible.

Critical thinking prompts: Questions and activities designed to stimulate analysis

3.

and reasoning.

Real-life applications: Examples that connect scienti?c principles to everyday

4.

phenomena.

These elements foster engagement and help students develop not only content knowledge but also scienti?c inquiry skills. The inclusion of glossary terms and concise summaries at the end of each chapter further aids retention and revision.

Comparative Insights: Longman Active Science Science 9 Versus Other Textbooks

When compared to other science textbooks targeting the same grade level, Longman Active Science Science 9 stands out for its interactive approach. Many traditional textbooks focus heavily on theoretical content, sometimes at the expense of application and experimentation. In contrast, this series prioritizes student-centered learning, which can lead to better conceptual understanding and retention.

However, some educators note that the book?s pacing can be ambitious, requiring teachers to adapt lesson plans to ensure students have adequate time to absorb material. Additionally, while the textbook is rich in content, it may bene?t from supplementary digital resources to appeal to the growing preference for technology-integrated learning.

Key Bene?ts of Using Longman Active Science Science 9

The textbook presents several advantages for both students and educators:

Comprehensive coverage: Addresses all major science domains relevant for

1.

grade 9 students.

Engagement-driven: Active learning components encourage curiosity and

2.

participation.

Clear explanations: Content is presented in a straightforward manner, accessible

3.

to a broad range of learners.

Assessment integration: Built-in quizzes and review materials facilitate

4.

continuous evaluation.

These strengths contribute to the book?s reputation as a reliable foundation for science

education at the secondary level.

Potential Limitations and Areas for Improvement

Despite its merits, Longman Active Science Science 9 has certain limitations worth noting:

Limited digital interactivity: The absence of a robust online platform or

1.

multimedia supplements may limit engagement for digital-native students.

Pacing challenges: Teachers may need to customize schedules to accommodate

2.

the textbook?s comprehensive scope.

Contextual examples: While the book includes real-life applications, some

3.

examples could be more globally diverse to resonate with students from various backgrounds.

Addressing these areas could enhance the textbook?s adaptability in diverse educational settings.

Longman Active Science Science 9 in the Context of Modern Science Education

In an era where STEM education is increasingly prioritized, Longman Active Science Science 9 ?ts well within the framework of fostering scienti?c literacy. Its emphasis on inquiry and experimentation aligns with the pedagogical shifts toward active learning and competency-based education. Moreover, the textbook?s approach encourages students to think like scientists?observing, hypothesizing, testing, and concluding?skills that are essential beyond the classroom.

The integration of environmental science topics also re?ects contemporary educational trends that seek to raise awareness about sustainability and ecological responsibility. By including these elements, Longman Active Science Science 9 not only imparts scienti?c knowledge but also nurtures environmentally conscious citizens.

The textbook?s structured yet ?exible design allows educators to adapt content delivery

based on student needs, making it a versatile tool in diverse classrooms. Whether in traditional school settings or blended learning environments, it o?ers a solid foundation for building scienti?c understanding.

The role of such textbooks in shaping students? academic trajectories cannot be overstated. As students progress through secondary education, resources like Longman Active Science Science 9 provide the groundwork for advanced studies in science and related ?elds. Its balanced approach between theory and practice helps demystify complex topics and encourages lifelong learning habits.

Overall, Longman Active Science Science 9 remains a signi?cant contributor to quality science education, re?ecting evolving pedagogical standards and the demands of modern curricula. Its commitment to active learning and comprehensive coverage positions it as a valuable asset for educators aiming to inspire and educate the next generation of scienti?c thinkers.

Longman Active Science 9, Longman Science Grade 9, Active Science textbook, Longman Science series, Science 9 textbook, Longman science curriculum, Active Science chapter 9, Science 9 study guide, Longman science activities, Longman science workbook

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