

Ks1 sats mark scheme 2007 Online PDF

ks1 sats mark scheme 2007: A Comprehensive Guide for Educators and Parents

Understanding the **KS1 SATs mark scheme 2007** is essential for educators, parents, and students involved in the Key Stage 1 assessments. These national tests, which take place in England for children aged 6 to 7, play a significant role in providing a snapshot of a child's progress in core subjects such as English and Maths. The 2007 mark scheme offers valuable insights into how these assessments are graded, ensuring transparency and consistency in marking. This article explores the key aspects of the **KS1 SATs mark scheme 2007**, its structure, application, and importance in the educational landscape.

Understanding the Purpose of the KS1 SATs Mark Scheme 2007

What is the KS1 SATs?

The Key Stage 1 SATs are national assessments designed to evaluate the attainment of young learners at the end of Key Stage 1. They cover subjects like:

- English (Reading, Writing, and Spelling, Punctuation & Grammar)
- Mathematics (Number, Algebra, Shape, Space, and Measures)

The results help teachers identify areas where pupils excel or need additional support.

Role of the Mark Scheme

The mark scheme provides detailed criteria for awarding marks for each answer, ensuring consistency across schools and marking periods. In 2007, the scheme was particularly focused on:

- Clear descriptors for partial and full answers
- Guidelines for awarding marks based on the quality of responses
- Ensuring fairness and objectivity in assessment

Structure of the KS1 SATs Mark Scheme 2007

English Mark Scheme (2007)

The English assessment in 2007 was divided into sections:

- Reading
- Writing
- Spelling, Punctuation & Grammar (SPaG)

Each section had specific criteria, with the mark scheme defining:

- Level descriptors
- Number of marks available for each task
- Examples of acceptable answers

Mathematics Mark Scheme (2007)

The Maths assessment focused on key areas:

- Number and place value
- Addition, subtraction, multiplication, division
- Shape, space, and measures

The mark scheme specified:

- Answer accuracy
- Method marks for demonstrating working out
- Partial credit for partially correct answers

Applying the KS1 SATs Mark Scheme 2007

Marking Procedures

Teachers and markers used the scheme to:

- Read student responses carefully
- Match answers against the criteria outlined in the mark scheme
- Assign marks based on completeness and correctness

Levels of Attainment

The 2007 scheme incorporated levels to categorize student performance:

- Level 2 (working towards the expected standard)
- Level 3 (meeting the expected standard)
- Level 4 (exceeding the standard)

These levels helped provide a clear picture of a child's progress relative to national benchmarks.

Importance of the KS1 SATs Mark Scheme 2007

Ensuring Fairness and Consistency

The detailed criteria minimized subjective judgment, ensuring that all students were assessed equitably regardless of the school or teacher.

Supporting Teaching and Learning

Results from the assessments, guided by the mark scheme, helped educators identify strengths and weaknesses, informing future lesson planning.

Preparing for Future Assessments

Understanding the mark scheme's structure and expectations enabled schools to better prepare students for subsequent stages of their education.

Key Features of the 2007 KS1 SATs Mark Scheme

Clarity and Specificity

The scheme provided explicit descriptions of what constitutes a correct or partially correct answer, reducing ambiguity.

Partial Credit Allocation

In recognition of partial understanding, the scheme allowed for awarding marks for partially correct responses, encouraging pupils to attempt answers even if incomplete.

Use of Exemplars

Sample answers were included to illustrate different levels of response quality, aiding markers in consistent grading.

Challenges and Considerations with the 2007 Mark Scheme

Subjectivity in Marking

Despite detailed criteria, some level of subjective judgment remained, especially in open-ended questions.

Impact of Mark Scheme on Teaching Strategies

Teachers might tailor instruction to meet specific assessment criteria, which could influence teaching priorities.

Evolution of Mark Schemes

Since 2007, mark schemes have undergone revisions to reflect curriculum changes and improved assessment practices, but understanding historical schemes remains valuable for context.

Conclusion: The Significance of the KS1 SATs Mark Scheme 2007

The **KS1 SATs mark scheme 2007** played a pivotal role in shaping fair, consistent, and transparent assessment practices for young learners in England. It provided a structured framework for teachers to evaluate student responses accurately and fairly, ultimately supporting the broader goal of ensuring high-quality education. For educators and parents alike, understanding the intricacies of the 2007 mark scheme offers insights into assessment standards and the importance of clear criteria in facilitating student progress. As educational assessments continue to evolve, the principles embedded in the 2007 scheme—clarity, fairness, and consistency—remain foundational to effective evaluation practices.

KS1 SATs Mark Scheme 2007: An In-Depth Review

The KS1 SATs Mark Scheme 2007 remains a significant reference point for educators, parents, and assessment professionals involved in the primary education sector. Designed to provide a standardized framework for evaluating pupils' performance at the end of Key Stage 1, this mark scheme offers detailed guidance on how students' work is graded and how scores are allocated across core subjects such as English and Mathematics. Understanding the structure, application, and implications of this mark scheme is essential for ensuring fair assessment, effective teaching strategies, and meaningful feedback for pupils.

Overview of the KS1 SATs Mark Scheme 2007

The KS1 SATs Mark Scheme 2007 was developed in alignment with the curriculum standards of the time, aiming to facilitate consistent and transparent assessment across schools. It was primarily used for the national curriculum assessments conducted in May 2007 and provided clear criteria for marking pupils' scripts, whether in reading, writing, mathematics, or science.

Key Features:

- Standardization: Ensures uniformity across different schools and examiners.
- Detailed Marking Criteria: Offers explicit guidance on how to award marks based on the quality of responses.
- Grade Boundaries: Defines thresholds for different levels, typically ranging from Level 1 to Level 3, with Level 2 representing the expected standard.
- Focus on Skills and Knowledge: Emphasizes both factual recall and understanding, as well as application and reasoning.

Structure of the Mark Scheme

The mark scheme is divided into subject-specific sections, each tailored to the unique assessment requirements of that subject. Here's a breakdown:

English (Reading and Writing)

- Reading: The mark scheme specifies how to allocate marks based on comprehension, inference, vocabulary, and literal understanding.
- Writing: Focuses on spelling, punctuation, grammar, sentence structure, and coherence. Markers evaluate the accuracy, clarity, and appropriateness of responses.

Mathematics

- The scheme provides detailed criteria for marking calculations, problem-solving, reasoning, and fluency.
- Emphasizes accuracy, method application, and mathematical reasoning.

Science (if applicable)

- Assesses understanding of scientific concepts, data handling, and experimental skills.
- Marking criteria evaluate accuracy, understanding, and application of scientific methods.

Application of the Mark Scheme

The application process involves trained markers who assess pupils' scripts against the detailed criteria. The process emphasizes consistency and fairness, with moderation sessions to reconcile differing judgments.

Process Highlights:

- Initial assessment based on explicit criteria.
- Use of exemplar scripts to calibrate marking standards.
- Moderation meetings to ensure uniformity across markers.
- Final allocation of levels and sub-levels based on cumulative scores.

Pros and Cons of the KS1 SATs Mark Scheme 2007

Pros:

- **Clarity and Transparency:** The detailed criteria provide clear guidance on how marks are awarded, reducing ambiguity.
- **Fairness:** Standardization helps ensure that all pupils are assessed equitably across different schools.
- **Diagnostic Value:** The breakdown of skills and knowledge allows teachers to identify specific areas for development.
- **Benchmarking:** Provides consistent benchmarks for expected performance at Key Stage 1.

Cons:

- **Rigidity:** The detailed criteria may sometimes limit teachers' flexibility to consider creative or non-standard responses.
- **Narrow Focus:** Emphasis on specific skills might overlook broader abilities like critical thinking or creativity.
- **Stress and Pressure:** The high-stakes nature of SATs, coupled with strict marking schemes, can induce anxiety among pupils and teachers.
- **Limited Adaptability:** The 2007 scheme reflects the curriculum standards of that period, which have since evolved, making it less adaptable to modern educational practices.

Features of the Mark Scheme

- Explicit Marking Guidelines: Clear instructions on how to allocate marks for each question.
- Sample Marking Grids: Examples illustrating how responses should be scored.
- Level Descriptors: Descriptive criteria for each level of attainment, detailing what constitutes a Level 1, Level 2, or Level 3 response.
- Error Identification: Guidelines for recognizing common misconceptions or mistakes and how they impact scoring.

Impact on Teaching and Learning

The KS1 SATs Mark Scheme 2007 influences teaching strategies significantly. Teachers often tailor their instruction to meet the criteria outlined in the scheme, focusing on developing skills that are explicitly tested.

Positive Impact:

- Encourages targeted skill development.
- Facilitates formative assessment and tracking of pupil progress.
- Helps in identifying pupils who need additional support.

Challenges:

- May lead to teaching to the test, narrowing the curriculum.
- Can cause a focus on measurable skills at the expense of broader educational experiences.
- Risk of undermining intrinsic motivation if pupils perceive assessments as purely punitive.

Evolution and Legacy

Since 2007, the KS1 SATs mark schemes have undergone several modifications to align with curriculum reforms, changes in assessment philosophy, and feedback from educators. However, the 2007 scheme remains a benchmark for understanding the foundational principles of assessment at Key Stage 1.

Legacy Aspects:

- Emphasis on clarity and fairness.

- Foundation for subsequent assessment frameworks.
- A reference point for comparing past and current assessment practices.

Conclusion

The KS1 SATs Mark Scheme 2007 played a pivotal role in shaping primary assessment during its time, offering a structured, transparent, and standardized approach to evaluating young learners' skills. While it has its limitations—such as potential rigidity and the risk of overemphasizing testable skills—it provided valuable insights into pupils' attainment levels and informed teaching practices. For educators, understanding the intricacies of the 2007 mark scheme allows for better preparation, fairer assessment, and more targeted support for pupils. As assessment practices continue to evolve, the principles embedded within the 2007 scheme—clarity, fairness, and focus on skills—remain relevant and serve as a foundation for ongoing improvements in educational evaluation.

Question What is the KS1 SATs Mark Scheme for 2007 used for? The KS1 SATs Mark Scheme for 2007 is used to assess and score students' performances in Key Stage 1 national assessments, providing standardized criteria for marking pupils' work in subjects like reading, writing, and mathematics. **Answer** Where can I find the official KS1 SATs Mark Scheme 2007? The official KS1 SATs Mark Scheme 2007 can typically be found on the Department for Education's website or through school assessment resources and archives that provide past exam materials. How does the 2007 KS1 SATs Mark Scheme differ from later versions? The 2007 KS1 SATs Mark Scheme may differ in scoring criteria, levels of achievement, and assessment standards compared to later versions, reflecting the curriculum and assessment frameworks in place at that time. What subjects are covered in the 2007 KS1 SATs Mark Scheme? The 2007 KS1 SATs Mark Scheme covers key subjects including Reading, Writing, and Mathematics, providing specific guidelines for marking student responses in each subject. How are pupils graded using the 2007 KS1 SATs Mark Scheme? Pupils are graded based on their performance against defined levels and criteria outlined in the mark scheme, which helps determine their achievement level and readiness for the next stage of education. Can teachers access sample answers or exemplars for the 2007 KS1 SATs Mark Scheme? Yes, teachers can access sample answers and exemplars that illustrate how to apply the mark scheme effectively, often provided in official assessment materials or teacher guidance documents. Is the 2007 KS1 SATs Mark Scheme still applicable for current assessments? No, the 2007 KS1 SATs Mark Scheme is outdated, as assessment standards and curriculum requirements have evolved; current mark schemes are more relevant for today's assessments. How did the 2007 KS1 SATs Mark Scheme influence student assessment at the time? The 2007 mark scheme provided a standardized way to fairly and consistently assess student performance, helping schools track progress and identify areas needing improvement during that period. Are there any online resources to help interpret the 2007 KS1 SATs Mark Scheme? Yes, educational websites, teacher forums, and archives often provide guides and explanations to help interpret the 2007 KS1 SATs Mark Scheme, although access to official documents is recommended for accuracy. What should I

consider when using the 2007 KS1 SATs Mark Scheme for historical assessment review? When using the 2007 mark scheme for historical review, consider changes in curriculum standards, assessment criteria, and the context of the time to ensure accurate interpretation and comparison.

Related keywords: KS1 SATs mark scheme 2007, KS1 assessment criteria 2007, KS1 SATs grading 2007, KS1 level descriptors 2007, KS1 test marking scheme 2007, primary school SATs 2007, KS1 assessment guidelines 2007, Key Stage 1 marking criteria 2007, KS1 test score interpretation 2007, KS1 examination standards 2007

WJEC BIOLOGY JAN 2010 MARK SCHEME

WJEC Biology Jan 2010 Mark Scheme

Understanding the WJEC Biology Jan 2010 Mark Scheme is essential for both students preparing for their exams and educators designing assessment strategies. This mark scheme provides a detailed breakdown of the expected responses, marking criteria, and grading standards for the January 2010 biology examinations administered by WJEC. It serves as a vital reference to ensure consistency, fairness, and clarity in marking, enabling students to better understand how their answers are evaluated and where they can improve.

Overview of the WJEC Biology Jan 2010 Exam and Mark Scheme

The January 2010 WJEC Biology exam covered key concepts in biology aimed at GCSE students. The mark scheme accompanying this exam outlined the essential points students needed to include in their answers, the marking criteria for each question, and the level of detail required for different grades.

The mark scheme is structured to reward comprehensive understanding and accurate scientific explanations. It emphasizes clarity of expression, appropriate use of scientific terminology, and the ability to interpret data and apply knowledge effectively.

Structure of the Mark Scheme

The WJEC Biology Jan 2010 mark scheme is organized systematically to correspond with each question on the exam paper. Key features of its structure include:

Question Number and Part

- Each question is numbered, with subsections labeled (a), (b), (c), etc.
- The mark scheme provides specific guidance for each part, indicating the expected answers.

Mark Allocation

- Each question or part has a set number of marks, reflecting the complexity and depth of the expected answer.
- Marks are divided among different points or steps within a question to guide students on the importance of each element.

Marking Points/Criteria

- The scheme specifies the essential points students must include.
- It differentiates between correct, partial, and incorrect responses.
- It provides guidance on how to allocate marks for each component.

Indicative Content

- The scheme offers examples of acceptable answers, including scientific terminology and specific details.
- It clarifies what constitutes a complete answer versus a partial or minimal response.

Key Features of the WJEC Biology Jan 2010 Mark Scheme

Understanding the key features helps students and teachers interpret the scheme effectively:

Focus on Scientific Accuracy

- Correct scientific terminology is essential.
- Answers must be scientifically accurate and relevant to the question.

Clarity and Precision

- Responses should be clear and well-structured.
- Ambiguous or vague answers receive fewer marks.

Application and Data Interpretation

- The scheme rewards students who can interpret data, graphs, and scientific diagrams.
- Application of knowledge to novel situations is encouraged.

Partial Credit

- The scheme allows partial credit for answers that demonstrate some understanding, even if not fully correct.
- Specific marks are allocated for each correct point made.

Example Breakdown of Marking Criteria

To illustrate how the mark scheme functions, consider a typical question from the Jan 2010 paper:

Question: Describe how enzymes work to catalyze biological reactions.

Expected points for full marks:

- Enzymes are biological catalysts. (1 mark)
- They lower the activation energy required for a reaction. (1 mark)
- They have an active site where the substrate binds. (1 mark)
- The enzyme-substrate complex forms temporarily. (1 mark)
- The enzyme releases the product and remains unchanged. (1 mark)

Mark scheme guidance:

- Full marks are awarded if all points are correctly described.
- Partial marks can be given if some points are included, such as mentioning the active site or the enzyme being unchanged.
- Vague answers like "enzymes make reactions faster" are insufficient unless elaborated with details about activation energy.

Using the Mark Scheme to Prepare for Exams

Students can utilize the WJEC Biology Jan 2010 mark scheme as a study tool by:

- **Understanding Expected Answers:** Reviewing the scheme helps students identify key points they need to include in their responses.
- **Practicing Past Questions:** Attempting questions and then comparing answers with the mark scheme highlights areas for improvement.
- **Developing Answer Structure:** Learning how to organize answers to include all necessary points for maximum marks.
- **Clarifying Scientific Terminology:** Ensuring precise use of terminology as indicated in the scheme.

Common Features and Tips for Effective Use of the Mark Scheme

To maximize the benefit of the WJEC Biology Jan 2010 mark scheme, consider these tips:

Focus on Keywords

- The mark scheme emphasizes specific keywords and phrases. Use them in your answers.

Be Concise but Complete

- Provide enough detail to cover all marking points but avoid unnecessary information.

Illustrate with Diagrams

- When diagrams are required, ensure they are labeled correctly, as the mark scheme often awards marks for proper labelling.

Review Model Answers

- Compare your responses with model answers or exemplar responses linked to the scheme.

Practice Data Analysis

- Develop skills in interpreting graphs and data tables, as the mark scheme often includes criteria for correct interpretation.

Conclusion

The WJEC Biology Jan 2010 mark scheme is an invaluable resource for understanding how examiners assess student responses. By familiarizing oneself with its structure and content, students can tailor their revision strategies to meet the expected standards, ultimately improving their exam performance. Whether through practicing past papers, refining scientific explanations, or mastering data interpretation, aligning answers with the mark scheme principles ensures a more targeted and effective approach to GCSE biology preparation.

Note: For detailed access to the full mark scheme, students should refer to official WJEC resources or consult their teachers, as the scheme provides comprehensive guidance on each question's marking criteria.

WJEC Biology Jan 2010 Mark Scheme: An In-Depth Review and Analysis

The WJEC Biology Jan 2010 Mark Scheme serves as a critical resource for students, teachers, and examiners involved in the Welsh Joint Education Committee's biology examinations. It provides a detailed framework for understanding how answers are evaluated, ensuring consistency and fairness in grading. This review aims to dissect the components of the mark scheme, explore its strengths and weaknesses, and offer insights into how it can be effectively utilized by stakeholders in the education process.

Introduction to WJEC Biology Mark Schemes

The WJEC (Welsh Joint Education Committee) is responsible for setting and marking a variety of GCSE and A-level examinations in Wales, including biology. The mark scheme for the January 2010 exam provides guidance on the expected answers, acceptable variations, and the allocation of marks for each question. Understanding this document is essential for students aiming to maximize their scores and for teachers preparing students effectively.

Key Features of the Mark Scheme:

- Clear delineation of points for each question
- Specification of acceptable alternative answers
- Guidance on common misconceptions
- Criteria for awarding partial or full marks
- Instructions for examiners on marking procedures

Structure of the WJEC Biology Jan 2010 Mark Scheme

The mark scheme is typically organized according to the exam paper's structure, breaking down questions into sections, each targeting specific learning outcomes.

Question Types and Mark Distribution

The 2010 mark scheme covers a variety of question types, including:

- Multiple-choice questions
- Short-answer questions
- Data interpretation and analysis questions
- Extended open-response questions

Each question's mark allocation reflects its complexity and the depth of understanding required. For example, multiple-choice questions may be worth 1-2 marks, while extended responses can be worth 6 or more marks.

Answer Requirements and Marking Criteria

The scheme stipulates:

- Key points that must be included for full marks
- Synonyms and acceptable alternative phrasing
- Common misconceptions or errors to watch for
- When to award partial marks for incomplete but relevant answers

This structure helps maintain consistency in marking across different examiners and centers.

Analysis of the Content Covered in the Jan 2010 Mark Scheme

The 2010 paper reflects the curriculum's focus areas, such as cell biology, genetics, ecology, and human biology. The mark scheme emphasizes not just factual recall but also understanding and application.

Cell Biology

- Features of prokaryotic and eukaryotic cells
- Functions of cell organelles
- Methods of cell division (mitosis and meiosis)

The mark scheme expects students to describe cell structures accurately and link functions to biological processes.

Genetics and Inheritance

- Explanation of dominant and recessive alleles
- Punnett square calculations
- Genetic mutations and their implications

Correct use of terminology and clear reasoning are critical.

Ecology and Environment

- Food chains and webs
- Human impacts on ecosystems
- Conservation strategies

The scheme rewards logical explanations and diagrammatic representations.

Strengths of the WJEC Jan 2010 Mark Scheme

- Clarity and Precision: The scheme precisely details what constitutes a correct answer, reducing ambiguity.
- Guidance on Partial Marks: It clearly delineates how partial answers are rewarded, encouraging comprehensive responses.
- Standardization: Ensures consistency across different examiners, maintaining fairness.
- Support for Teachers: Acts as a valuable tool for preparing students by highlighting key points and common pitfalls.
- Focus on Understanding: Emphasizes application and analysis rather than rote memorization.

Features in Bullet Points

- Detailed answer keys linked to specific questions
- Examples of acceptable terminology
- Marking instructions for examiners
- Identification of common misconceptions
- Clear criteria for partial credit

Limitations and Challenges of the Mark Scheme

While the mark scheme is a valuable resource, it also has some limitations:

- **Rigidity:** Strict adherence may sometimes overlook creative or alternative correct answers.
- **Potential for Over-Standardization:** Excessive standardization might stifle examiner flexibility in evaluating nuanced responses.
- **Dependence on Student Terminology:** Students using synonyms or different phrasing might risk losing marks if not aligned with the scheme.
- **Limited Scope for Explanation Variability:** Some answers may be scientifically valid but not match the pattern expected, leading to potential unfairness.
- **Resource Intensive for Teachers:** Thorough understanding of the scheme requires time and effort, especially for new or complex questions.

Utilizing the Mark Scheme Effectively

For students and teachers, the mark scheme can be a powerful tool when used appropriately.

For Students:

- Use the scheme to understand what examiners look for.
- Practice answers based on the key points outlined.
- Develop the ability to phrase answers in the language aligned with the scheme.
- Review past papers and mark schemes to identify common question patterns.

For Teachers:

- Use the scheme to develop comprehensive marking criteria.
- Prepare students with model answers and typical responses.
- Standardize marking across different assessors.
- Identify areas where students commonly lose marks and address these in lessons.

Impact on Exam Preparation and Performance

The availability of detailed mark schemes like the WJEC Biology Jan 2010 version influences how students prepare and perform:

- It encourages focused revision on key concepts.
- It helps students understand the level of detail expected.

- It reduces anxiety by clarifying marking expectations.
- It promotes fairness and transparency in grading.

However, over-reliance on the scheme might lead students to adopt a narrow approach, emphasizing memorization over genuine understanding.

Conclusion and Final Thoughts

The WJEC Biology Jan 2010 Mark Scheme exemplifies a well-structured approach to assessment, balancing clarity with fairness. Its detailed guidance supports consistent marking and provides invaluable insights into the examiners' expectations. While it has limitations, especially concerning flexibility and creativity in responses, its benefits for both students and teachers are undeniable. Effective use of this resource can significantly enhance exam preparedness, improve student performance, and uphold the integrity of the assessment process.

Moving forward, educators should continue to complement the mark scheme with teaching strategies that promote deep understanding and critical thinking, ensuring that students are not just exam-ready but also genuinely competent in biology.

Question Where can I find the official WJEC Biology Jan 2010 Mark Scheme? The official WJEC Biology Jan 2010 Mark Scheme can be accessed through the WJEC website or your school's examination resources. **How is the WJEC Biology Jan 2010 Mark Scheme structured?** The mark scheme is organized into sections corresponding to each question, providing point-by-point marking criteria and suggested answers for clarity and consistency. **What topics are covered in the WJEC Biology Jan 2010 Mark Scheme?** It covers various topics from the WJEC Biology syllabus for January 2010, including cell biology, genetics, ecology, and human biology. **How can students use the WJEC Biology Jan 2010 Mark Scheme to improve their exam performance?** Students can review the mark scheme to understand the expected answers, key points for each question, and common misconceptions, helping them to structure better responses. **Are there any common mistakes highlighted in the WJEC Biology Jan 2010 Mark Scheme?** Yes, the mark scheme often indicates common errors or omissions, such as missing key terms or incomplete explanations, which students should be aware of. **How detailed is the WJEC Biology Jan 2010 Mark Scheme in terms of awarding marks?** The mark scheme provides detailed criteria for awarding full, partial, or no marks, ensuring fair and consistent grading based on the quality of responses. **Can teachers use the WJEC Biology Jan 2010 Mark Scheme for assessment moderation?** Yes, teachers use the mark scheme as a reference to ensure consistent marking standards across different examiners and to moderate marking if needed. **Is the WJEC Biology Jan 2010 Mark Scheme useful for revision purposes?** Absolutely, it helps students understand what examiners look for in answers, aiding targeted revision and answer structuring. **Are there updated versions of the WJEC Biology Mark Scheme after 2010?** Yes, WJEC regularly updates their mark schemes; students and teachers should refer to the latest versions for current exams, but historical schemes like Jan 2010 remain useful for

review and understanding past papers.

Related keywords: WJEC biology, January 2010, mark scheme, GCSE biology answers, WJEC biology exam, biology revision, biology paper solutions, biology exam marking, biology exam questions, GCSE science grading

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