

# January 2020 Regents Answer Key

ANSWERS TO TOPIC 1		
<b>Review Questions</b>		
1. 1	2. 3	3. 2
4. 4	5. 2	6. 2
7. 1	8. 3	9. 3
10. The plum pudding model pictures the atom with an even distribution of positive charges, with electrons throughout the atom. The planetary model pictures the nucleus at the center of the atom with electrons in orbits.		
11. Rutherford fired positively charged alpha particles at gold foil. He expected them to pass through with little deflection. When some were greatly deflected, he reasoned that they must have been repelled by a massive positively charged particle, which was called the nucleus.		
12. The Rutherford model pictured the electrons in fixed, orbiting positions. The wave-mechanical model pictures electrons as possessing both wave and particle properties.		
13. 3	14. 3	15. 1
16. 3	17. 4	18. 4
19. 2	20. 4	21. 2
22. 1	23. 1	24. 3
25. 3	26. 2	27. 2
28. 3	29. 3	30. 2
31. 3	32. 4	33. 4
34. 4	35. 1	36. 2
37. 1	38. 1	39. 3
40. 1	41. 2	42. 3
43. 2	44. 4	45. 4
46. 3	47. 3	48. 4
49. 2	50. 3	51. 2
52. 2	53. 3	54. 1
55. 3	56. 3	
57. Na $1s^2 2s^2 2p^6 3s^1$		
Mg $1s^2 2s^2 2p^6 3s^2$		
Al $1s^2 2s^2 2p^6 3s^2 3p^1$		
Si $1s^2 2s^2 2p^6 3s^2 3p^2$		
P $1s^2 2s^2 2p^6 3s^2 3p^3$		
S $1s^2 2s^2 2p^6 3s^2 3p^4$		
Cl $1s^2 2s^2 2p^6 3s^2 3p^5$		
Ar $1s^2 2s^2 2p^6 3s^2 3p^6$		
58. 1	59. 4	60. 1
61. 1	62. 2	63. 4
64. 4	65. 2	66. 2
67. 2	68. 2	69. 1
70. The mixture contains at least three parts. One solid remained on the filter paper. The other two parts consist of a liquid with a solid dissolved in it.		
71. If the calcium and sulfur can be separated by physical means, the substance is a mixture. If chemical means are required to separate them, it is a compound.		
72. The picture should show several of each type of molecule evenly mixed.		
73. A mixture of iron and oxygen would have the iron present as a solid and the oxygen present as a gas. The iron would be attracted to a magnet. A glowing splint would ignite into a flame if placed into the oxygen gas. If the iron and oxygen were combined as a compound, it would be a solid that is not attracted to a magnet.		
74. Pepperoni pizza is heterogeneous because individual parts can be seen.		
75. A is a mixture of an element and a compound; one molecule contains identical atoms and the other one contains different types of atoms. B is a compound; all particles are identical and are made up of two different types of atoms. C is an element; all molecules are identical and each is made up of two identical atoms. D is a mixture of an element and two different compounds; one molecule contains identical atoms and the other two contain different types of atoms, but they differ from each other.		
76. Container D is homogeneous because the particles are mixed on the molecular level.		
77. The two substances are different materials because their composition varies.		
<b>Regents Practice Questions</b>		
<b>Part A</b>		
1. 1	2. 1	3. 1
4. 3	5. 1	6. 4
7. 2	8. 3	9. 3
10. 2	11. 3	12. 1
13. 2	14. 3	
<b>Part B</b>		
15. 4	16. 3	17. 1
18. 3	19. 1	20. 3
21. 1	22. 3	23. 2
24. 4		
<b>Part C</b>		
25. Because the two nuclei have different numbers of protons, they have different amounts of attraction for electrons. As a result, the amounts of energy separating the energy levels differ for the two elements.		
26. The samples are not the same substance because the percent of each element differs from sample to sample.		
27. Because he assumed the atom to have an even distribution of positive charges, he did not expect a concentration of positive charges that would strongly deflect or bounce back the alpha particles.		
28. The spectra are based on the elements present in the compound. If some lines matched and some didn't, the compounds have at least one element in common and at least one differing element.		
29. Column 1: 1, 2, 1; column 2: K, 39, 19; column 3: 92, 146, 92		
30. $(0.9778 \times 12) + (0.0222 \times 13) = 12.02$		
31. They contain different numbers of neutrons.		
32. $(19.99 \times .909) + (20.99 \times 0.03) + (21.99 \times 0.88)$		
33. 20		
34. $(12.00 \times 9.93) + (13.00 \times 1.07)$		
35. Both isotopes contain 6 protons but different numbers of neutrons. Or: An isotope with a mass of 12.00 contains 6 protons and 6 neutrons, while the isotope with a mass of 13.00 contains 6 protons and 7 neutrons.		

January 2020 Regents Answer Key is a critical resource for students, educators, and parents involved in the New York State Regents Examinations. The January 2020 Regents exams were a significant milestone in the academic calendar, providing an assessment of students' knowledge and skills in various subjects. This article aims to delve deeply into the January 2020 Regents answer key, its importance, the subjects included, and how it can be used effectively by students and educators alike.

## Overview of the Regents Exams

The New York State Regents Examinations are standardized tests designed to assess high school students' understanding of the curriculum. These exams play a crucial role in determining students' readiness for college and career paths. The Regents exams cover various subjects, including:

1. English Language Arts (ELA)
2. Mathematics
3. Science
4. Social Studies
5. Languages Other Than English (LOTE)

Passing these exams is often a requirement for high school graduation. The January 2020 Regents exams were administered to thousands of students across the state, and the corresponding answer key serves as a valuable tool for evaluating performance.

## **Structure of the January 2020 Regents Exams**

The January 2020 Regents exams followed a structured format that typically includes:

- Multiple Choice Questions: These questions test students' recall and comprehension of material.
- Short Answer Questions: Students are required to provide brief written responses, demonstrating their understanding of specific concepts.
- Extended Response Questions: These questions require students to elaborate on a topic, often involving critical thinking and in-depth analysis.

Each subject has its unique format, and the January 2020 exams maintained these standards, ensuring consistency across assessments.

## **Significance of the Answer Key**

The answer key for the January 2020 Regents exams holds significant value for various stakeholders:

### **1. Students**

- Self-Assessment: Students can use the answer key to evaluate their performance, identifying areas where they excelled and areas needing improvement.
- Study Guide: The answer key can help students understand the types of questions asked and the correct answers, allowing them to prepare more effectively for future exams.
- Stress Reduction: Knowing the correct answers can alleviate anxiety about performance and provide clarity on what to expect in future assessments.

### **2. Educators**

- Curriculum Review: Teachers can analyze the answer key to identify common areas of difficulty among students, leading to adjustments in the curriculum or teaching methods.
- Targeted Instruction: Educators can tailor their instruction based on the areas where students struggled, ensuring a more focused approach to teaching.
- Performance Metrics: The answer key allows for an analysis of class performance, helping educators gauge the effectiveness of their teaching strategies.

### **3. Parents**

- **Supporting Learning:** Parents can use the answer key to support their children's learning at home, helping them review material and prepare for future tests.
- **Engagement:** Understanding their child's performance on the Regents exams can encourage parents to engage more actively in their education.

## **Accessing the January 2020 Regents Answer Key**

The January 2020 Regents answer key can typically be accessed through the New York State Education Department (NYSED) website. The site provides:

- **Official Answer Keys:** These are the most reliable sources for correct answers.
- **Scoring Guides:** In addition to the answer keys, scoring guides are available to help understand how answers are evaluated.
- **Past Exam Papers:** Access to previous years' exams can be beneficial for study and practice.

Students and educators are encouraged to utilize these resources to enhance their understanding of the exam structure and content.

## **Using the Answer Key Effectively**

To maximize the benefits of the January 2020 Regents answer key, it is essential to approach it strategically:

### **1. Review Incorrect Answers**

- Analyze the questions missed and understand why the correct answers are right.
- Look for patterns in mistakes, such as misunderstanding concepts or misreading questions.

### **2. Create a Study Plan**

- Based on the performance analysis, develop a targeted study plan focusing on weaker areas.
- Incorporate various study materials, including textbooks, online resources, and practice exams.

### **3. Engage in Group Study**

- Discussing questions and answers with peers can provide different perspectives and enhance understanding.
- Group study can also help clarify doubts and reinforce learning through teaching others.

# Challenges and Considerations

While the answer key is a valuable tool, there are challenges and considerations to keep in mind:

## 1. Limitations of Self-Assessment

- Students may misinterpret the answer key or fail to recognize the nuances of certain questions.
- It's important to seek clarification from teachers if there's confusion about specific answers.

## 2. Overemphasis on Test Scores

- While exams are important, they are not the sole measure of a student's abilities or potential.
- A holistic approach to education that includes project-based learning, collaborative work, and critical thinking is essential.

## 3. Staying Current

- Education standards and exam formats can change, so staying updated on any modifications in the Regents exams is crucial.
- Regularly check the NYSED website for the latest information, updates, and additional resources.

## Conclusion

The January 2020 Regents answer key serves as a vital resource for students, educators, and parents in navigating the complexities of high school education in New York State. By understanding its significance and utilizing it effectively, stakeholders can enhance learning outcomes and foster a more supportive educational environment. As the landscape of education continues to evolve, leveraging tools like the answer key can make a substantial difference in students' academic journeys. Whether preparing for future exams or revisiting past performances, the answer key remains an integral part of the Regents examination experience.

## Frequently Asked Questions

### What subjects were included in the January 2020 Regents exams?

The January 2020 Regents exams included subjects such as Algebra I, Geometry, Living Environment, Earth Science, and Global History.

### Where can I find the official answer key for the

## **January 2020 Regents exams?**

The official answer key for the January 2020 Regents exams can be found on the New York State Education Department's website under the 'Regents Examinations' section.

## **How did the January 2020 Regents exams differ from previous years?**

The January 2020 Regents exams featured slight adjustments in format and content alignment due to curriculum updates, but the overall structure remained consistent with previous years.

## **Are there any resources available for students to review the January 2020 Regents exams?**

Yes, students can access past exam papers and scoring guides available on the New York State Education Department website for practice and review.

## **What were some common challenges faced by students during the January 2020 Regents exams?**

Common challenges included time management during the exam, understanding complex questions, and the pressure to pass for graduation requirements.

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January is the first month of the year in the Julian and Gregorian calendars. Its length is 31 days. The first day of the month is known as New Year's Day.

### **The 12 Months of the Year - timeanddate.com**

However, when January and February were eventually added and the beginning of the calendar year was moved to January, the position of these months no longer corresponded with the original meaning of their names.

### **January - Simple English Wikipedia, the free encyclopedia**

January (Jan.) is the first month of the year in the Julian and Gregorian calendars, coming between December (of the previous year) and February (of the current year). It has 31 days. January begins on the same day of the week as October in ...

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[January: First Month of the Year - timeanddate.com](#)

January is a winter month in the northern half of the world and a summer month in the southern half. It is named after the Roman god of new beginnings, Janus. The Roman god Janus (or Ianus) looks into the past and into the future. January is the ...

[January \(January\) - Cambridge Dictionary](#)

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