BRAINIACS OLYMPIAD

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PHYSICS MECHANICS

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Brainiacs Chemistry Olympiad Mechanics

The Brainiacs Physics Olympiad is a competition aimed at encouraging creativity, innovation, and academic excellence in students from Grade 7 to Grade 12. The Olympiad is structured into two main stages: the Preliminary Round and the Global Round.

Preliminary Round Registration

Students can register for the Olympiad through the official Brainiacs Olympiad website or via authorized representatives in their respective countries.

Dates

The online qualifying exams for the Preliminary Round are scheduled for:

- Round I: - November 15, 2025 (Registration deadline: November 14, 2025)
- Results: November 20, 2025
- Round II: - December 20, 2025 (Registration deadline: December 19, 2025)
- Results: - December 25, 2025

The two online rounds are the same, but feature different questions. Those who did not qualify for the global round in the first online round, along with those who were absent from the first round, can participate in the second round.

Format

The exam consists of 20 questions divided into three levels of difficulty:

- Easy: 5 questions
- Normal: 10 questions
- Difficult : 5 questions

The exam consists of 20 multiple-choice questions to be completed within 75 minutes.

Questions are tailored to the participant's educational level and divided into the following
categories:

- Category 1: Grades 7 and 8
- Category 2: Grades 9 and 10
- Category 3: Grades 11 and 12

Scoring

- Easy Questions: +4 points for each correct answer
- Normal Questions: +5 points for each correct answer
- Difficult Questions: +6 points for each correct answer
- Incorrect Answer: No negative marking for any question
- Unanswered Question: No points deducte

Qualification

Participants scoring at least 40% in the Preliminary Round qualify for the Global Round. Every participant receives a Certificate of Participation.

Recognition

In the Preliminary Round, medals are awarded based on the points earned by the participants:

- 40 to 49 : Honorable Mention Certificate
- 50 to 74 : Bronze Medal
- 75 to 89 : Silver Medal
- 90 to 100 : Gold Medal

Global Round

The Global Round is the final stage of the competition, where participants showcase their knowledge and ability.

Registration

Students can register for the Olympiad through the official Brainiacs Olympiad website or via authorized representatives in their respective countries.

Dates and Venue

The Global Round of Brainiacs Olympiad will take place in Xiamen University Malaysia from March 24 to 30, 2026.

- Normal Registration Deadline: February 1, 2026
- Late Registration: March 1, 2026

Exam Days

Global Round exam format is different from Preliminary Round. It has both Theoretical and Practical parts separated in two consecutive examination days.

Day 1. Theoretical Part

This is the traditional portion of a physics exam it tests understanding of physical laws, concepts, and problem-solving through reasoning and calculation.

Examples:

• Solving quantitative problems using formulas and laws (e.g., Newton's laws, Ohm's law)

• Explaining physical phenomena in written form (e.g., "Why does the current decrease when resistance increases?")

• Interpreting graphs, diagrams, or data related to motion, forces, and energy

• Conceptual or multiple-choice questions on key principles

Purpose:

To test theoretical knowledge, analytical reasoning, application of formulas, and conceptual understanding of the physical world.

Day 1 Exam Format

The exam consists of 20 questions divided into three levels of difficulty:

- Easy: 5 multiple-choice questions
- Normal: 5 multiple-choice questions
- Difficult: 5 multiple-choice questions
- Open-ended(difficult): 5 questions

The exam consists of 15 multiple-choice and 5 open-ended questions to be completed within 120 minutes.

Day 1. Exam Scoring

- Easy Questions: +3 points for each correct answer
- Normal Questions: +4 points for each correct answer
- Difficult Questions: +5 points for each correct answer
- Open-ended: +8 points for full correct solution and answer
- Incorrect Answer: No negative marking for any question
- Unanswered Question: No points deducted

Day 2. Practical Part

The practical part checks how students can apply physical principles in real-world or experimental contexts (measurement, observation, and data-based tasks).

Examples:

- Measuring physical quantities (mass, time, voltage, current, etc.) using instruments
- Investigating relationships between variables (e.g., "How does the length of a pendulum affect its period?")
- Analyzing experimental data, drawing graphs, and interpreting physical patterns

Purpose:

To test experimental skills, accurate measurement, data analysis, and understanding of how physics concepts work in practice.

Day 2. Exam Format and Scoring

The exam consists of two tasks, each worth 50 points, to be completed within 120 minutes. Each task includes several questions that test a range of skills, including conceptual understanding, analytical thinking, and practical application.

Global Round Recognition

In the Global Round, medals are awarded based on the percentage distribution according to the number of participants.

- The top 10% (0-10%) of participants receive gold medals.
- The next 20% (11-30%) of participants receive silver medals.
- The next 30% (31-60%) of participants receive bronze medals.
- The next 15% (61-75%) receive honorable mentions.

Languages

All of the questions in Preliminary and Global Rounds will be in 4 languages: English, Russian, French, and Spanish