

INFORMATION PACK



GALAXY EXPLORER COMPETITION 2023



MALAYSIAN ASTRONOMY OLYMPIAD



WWW.MYAO.MY

INTRODUCTION

Galaxy Explorer Competition is an annual, online national school-level competition that introduces general knowledge about the study of everything in the universe that is beyond the Earth's atmosphere (*example: solar system, planets*).

Primary and Secondary school students (Standard 4 until Form 5) from all over Malaysia are invited to join this competition. The aim of this competition is to instill interest and to give exposure to students in this field.



STAGES

Malaysian Astronomy Olympiad (MyAO)

The top students in this competition will be selected for the next stage, the Malaysian Astronomy Olympiad (MyAO)

National Training Camps

The best students from MyAO will be invited to join the National Training Camp. Students will then be further trained and tested during the online and offline training camps and homework assignments

International Astronomy Olympiad (IAO)

The five best students at the national training camp will be chosen to represent Malaysia in the International Astronomy Olympiad. IAO usually will be held in October 2023

WHO CAN PARTICIPATE?

PRIMARY CATEGORY



Public School:
Standard 4 up to
Standard 6

International School:
Year 4 up to Year 6

SECONDARY CATEGORY



Public School:
Form 1 up to Form 5

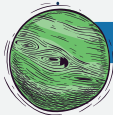
International School:
Year 7 up to Year 11

COMPETITION FORMAT



METHOD

Online



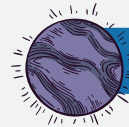
LANGUAGES

English
Bahasa Melayu



GRADING

1 mark for each
correct answer



ANSWERING TIME

1 hour
30 minutes



FORMAT

- 30 objective questions
- Four choices of answers (ABCD)
- Only one choice answer is correct



NECESSITY

- Stable internet connection
- Scientific calculator
- Universal constants list will be provided

SYLLABUS

PRIMARY

- Force
- Galaxy
- Eclipse
- Earth
- Machine
- Technology
- Solar System
- Light and Sound
- Speed and Velocity
- Moon and Constellation

SECONDARY

- Force and Motion
- Stars and Galaxies
- Solar System
- Meteoroid, Asteroid and Comet
- Space Weather
- Space Exploration
- Nuclear Energy
- Space Technology

BENEFITS

Each student will receive a certificate according to your achievements:



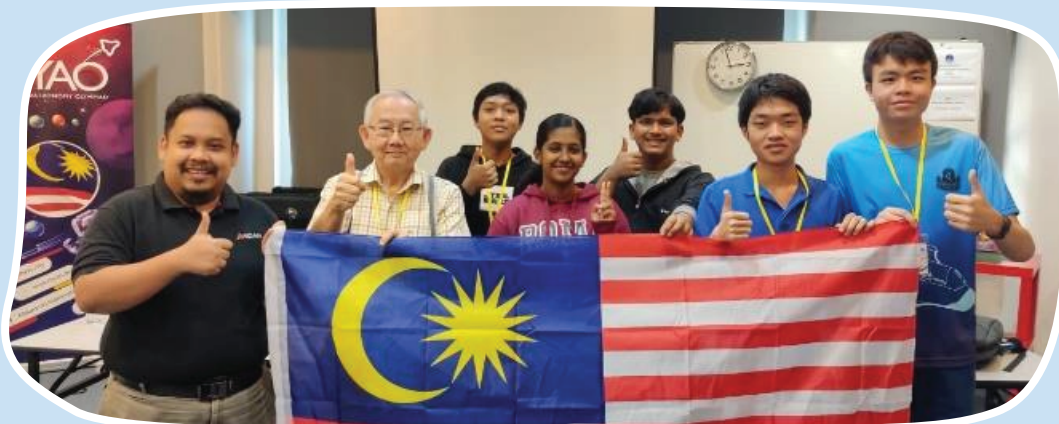
- Top 10% of students will get an opportunity to attend the Malaysian Astronomy Olympiad (MyAO) and be trained by professional and experienced trainers in this field
- 5 best students will have a chance to represent Malaysia in the International Astronomy Olympiad (IAO) 2023

ACHIEVEMENT

Malaysian Team in the International Remote Astronomy Olympiad (IRAO) 2022

IRAO 2022 were hosted by the Italian Astronomical Society, Matera, Italy from the 15th - 24th October 2022. The olympiad was conducted remotely and participated by 12 countries. The Malaysian representative consists of 3 Alpha students, 2 Beta students, and 1 Gamma student and is led by professional and experienced Team Leader and Jury Member, Dr Chong Hon Yew and Team Leader, Mr Hadhri. Dr Chong Hon Yew has been our trainer, team leader and jury member since 2018. He had experiences in IAO 2019, IAO 2021 and IAO 2022.

The International Board awarded 100 medals and one of it won by our student Lim Yu Cheng from the Beta category. He won a II-nd Prize Diploma (Silver Medal). Other students, Sayyid Ammar Ikraam, Harshana Gunalan, Yahaya Basiron, Ong Cheng Yiin and Ng Kin Him were awarded the certificate of participation. Congratulations to all members of the team! We are so proud of them!



SAMPLE QUESTION 1

How many planets are there in our solar system?

Berapakah planet yang terdapat dalam sistem suria?

- A** Eight / *Lapan*
- B** Nine / *Sembilan*
- C** Ten / *Sepuluh*
- D** Eleven / *Sebelas*



ANSWER: A

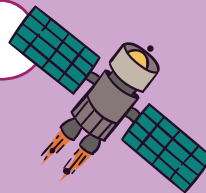
SAMPLE QUESTION 2

What is the smallest planet in the solar system?

Apakah planet yang paling kecil dalam sistem suria?

- A** Neptune / *Neptun*
- B** Pluto / *Pluto*
- C** Mercury / *Merkuri*
- D** Earth / *Bumi*

ANSWER: C



SAMPLE QUESTION 3

What is the best way to look at a Solar Eclipse?
Apakah cara terbaik untuk melihat Gerhana Matahari?

- A** Look directly at it
Lihat terus ke arah itu
- B** Look at it using a goggles
Lihat menggunakan goggles
- C** Look at it using dark sunglasses
Lihat menggunakan cermin mata hitam
- D** Use a pinhole camera and look at its image
Gunakan kamera lubang jarum dan lihat imejnya

ANSWER: D



SAMPLE QUESTION 4

Which of the following are the characteristics of the Earth as a planet that suitable for a living?

Antara yang berikut, yang manakah merupakan ciri-ciri Bumi sebagai planet yang sesuai untuk kehidupan?

- I** Has a suitable temperature range
Mempunyai julat suhu yang sesuai
- II** Has an atmosphere that prevents ultraviolet ray
Mempunyai atmosfera yang menghalang sinar ultraungu
- III** Has a moon that causes tides
Mempunyai bulan yang menyebabkan pasang surut air

- A** I & II
- B** I & III
- C** II & III
- D** I, II & III

ANSWER: A



SAMPLE QUESTION 5

Which galaxy is our solar system located in?
Galaksi manakah terletaknya sistem suria kita?

- A** Canis Major Dwarf Galaxy / *Galaksi Kerdil Utama Canis*
- B** Milky Way Galaxy / *Galaksi Bima Sakti*
- C** Andromeda Galaxy / *Galaksi Andromeda*
- D** Triangulum Galaxy / *Galaksi Segitiga*



ANSWER: B

SAMPLE QUESTION 6

Which of the following planets in our solar system has the largest circular storm on its surface?
Planet yang manakah dalam sistem suria mempunyai ribut bulat terbesar pada permukaannya?

- A** Jupiter / *Musytari*
- B** Venus / *Zuhrah*
- C** Uranus / *Uranus*
- D** Earth / *Bumi*



ANSWER: A

IMPORTANT DATES

**27
DEC
2022**

Registration
Open

**31
JAN
2023**

Registration
Close

**11
FEB
2023**

Competition
Day

**20
FEB
2023**

Result
Announcement

REGISTRATION FEE

JOIN UNDER A
SCHOOL

RM35
PER STUDENT

JOIN AS
INDIVIDUAL

RM50
PER STUDENT

HOW TO REGISTER

Registration can be made at
WWW.CONTESTHUB.MY

CONTACT US

GALAXY EXPLORER COMPETITION SECRETARIAT

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