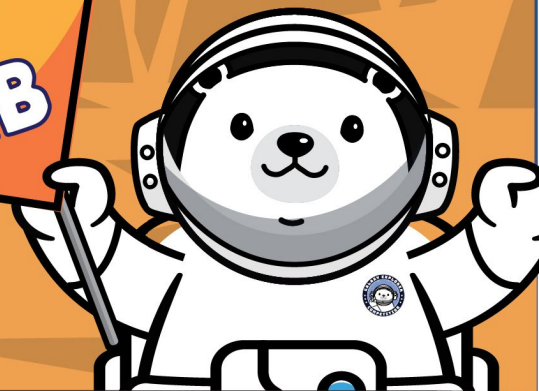




GALAXY EXPLORER COMPETITION

2024





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 Galaxy Explorer 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 six best students at the national training camp will be chosen to represent Malaysia in the International Astronomy Olympiad (IAO) which usually will be held in October 2024

WHO CAN PARTICIPATE?

PRIMARY CATEGORY

Public School

Standard 4 up to Standard 6

International School

Year 4 up to Year 6

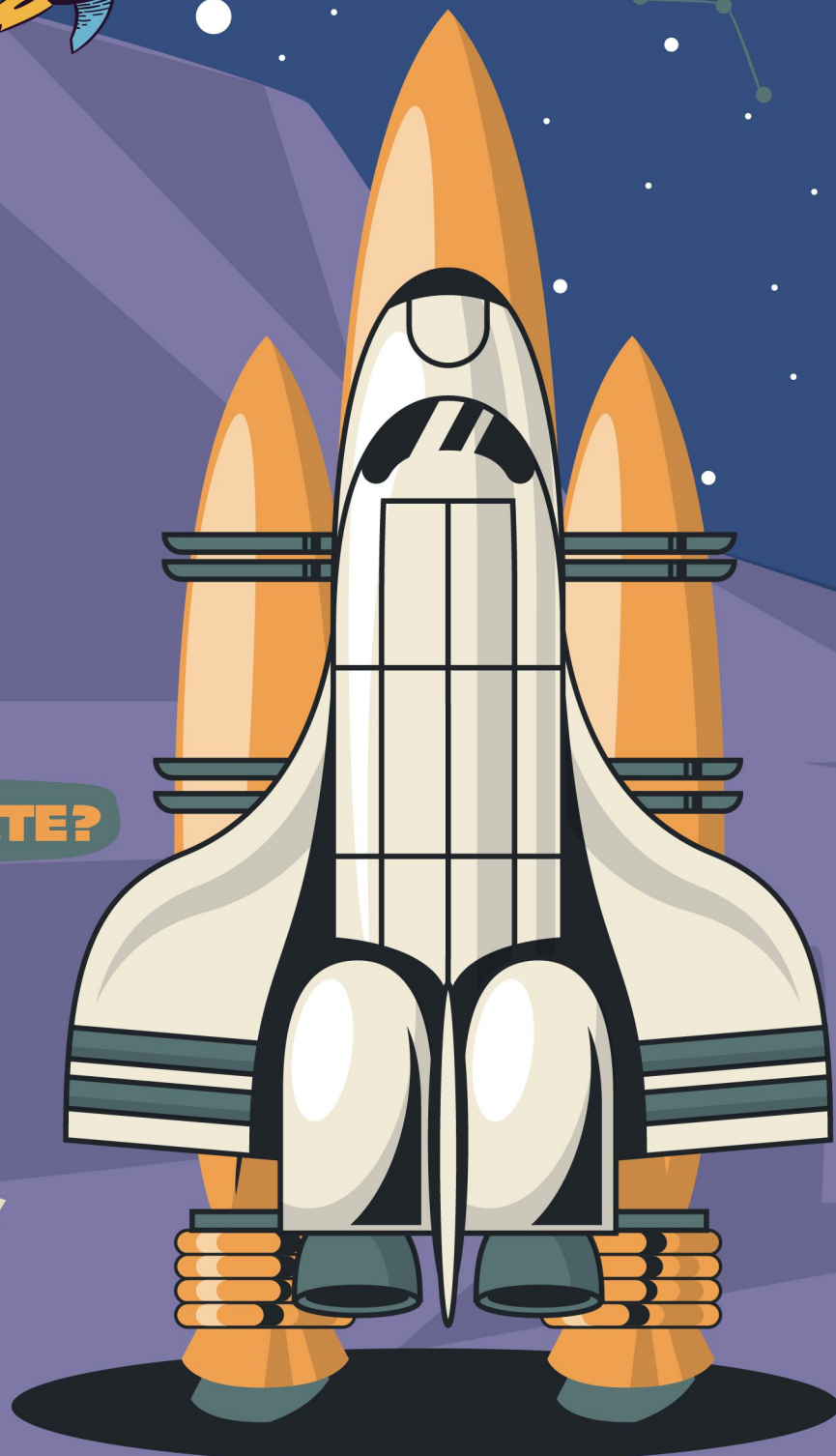
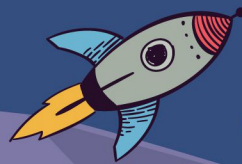
SECONDARY CATEGORY

Public School

Form 1 up to Form 5

International School

Year 7 up to Year 11



COMPETITION FORMAT

METHOD

Online

REGISTRATION

Each student need a unique email address

LANGUAGES

English and Bahasa Melayu

GRADING

1 mark for each correct answer

ANSWERING TIME

1 hour and 30 minutes

FORMAT

- 30 objective questions
- Four choices of answers (ABCD)
- Only one answer choice 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%
will receive a Gold, Silver & Bronze Award

NEXT 40%
will receive an Honorable Mention

REMAINING 50%
will receive a Certificate of Participation

- 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
- 6 best students will have a chance to represent Malaysia in the International Astronomy Olympiad (IAO) 2024

Achievement of the Malaysian Team in the International Astronomy Olympiad (IAO) 2023

IAO 2023 were hosted by the Beijing Planetarium, from 6th – 14th November 2023. The olympiad was conducted physically and participated by 9 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, Mr Mohammad Afiq Dzuan bin Mohd Azhar. Our national team is trained by Mr Daim and Dr Chong Hon Yew who has experiences in IAO 2019, IRAO 2021, IRAO 2022, and IAO 2023.

Malaysia team managed to bring home 4 Bronze Medals through Ng Kin Him, Liew Ze Wei, Lucas Cheah Hoe Yeen and Yahaya Basiron. Ng Kin Him was also awarded the Best Drawing Award. Congratulations to all members of the team! We are so proud of them!



SAMPLE QUESTION 1

What is the name of the constellation below?

Apakah nama buruj di bawah?



- A** Orion / *Belantik*
- B** Big Dipper / *Biduk*
- C** Scorpion / *Scorpio*
- D** Southern Cross / *Pari*



ANSWER: A

SAMPLE QUESTION 2

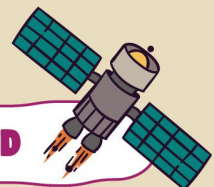
Astronomers use a pinhole camera to view the eclipse of the Sun. The Sun looks like the diagram below. What type of the eclipse of the Sun did the astronomer see?

Ahli falak menggunakan kamera lubang jarum untuk melihat suatu gerhana Matahari. Mereka melihat Matahari kelihatan seperti gambar rajah di bawah. Apakah jenis gerhana Matahari yang dilihat oleh ahli falak tersebut?



- A** Total eclipse / *Gerhana penuh*
- B** Annular eclipse / *Gerhana cincin*
- C** Hybrid eclipse / *Gerhana hibrid*
- D** Partial eclipse / *Gerhana separa*

ANSWER: D



SAMPLE QUESTION 3

The following information shows the characteristics of X.
Maklumat berikut menunjukkan ciri-ciri X.

- Enter the Earth's atmosphere / *Memasuki atmosfera Bumi*
- Burns and produces light / *Membakar dan menghasilkan cahaya*

What is X?

What is X?

- A** Stars / *Bintang-bintang*
- B** Sun / *Matahari*
- C** Meteor / *Meteor*
- D** Comet / *Komet*



ANSWER: C

SAMPLE QUESTION 4

What constellation can be seen between the northern and the southern hemispheres?

Buruj apakah yang dapat dilihat di antara hemisfera utara dengan hemisfera selatan?

- A** Orion / *Belantik*
- B** Big Dipper / *Biduk*
- C** Scorpion / *Scorpio*
- D** Southern Cross / *Pari*



ANSWER: A

SAMPLE QUESTION 5

When a meteoroid survives a trip through the atmosphere and hits the ground, it's called a _____.

Apabila meteoroid terselamat daripada perjalanan melalui atmosfera dan mencecah tanah, ia dipanggil sebagai _____.

- A** Asteroids
- B** Meteorite
- C** Meteors
- D** Meteoroids

ANSWER: B



SAMPLE QUESTION 6

Astronauts on the Moon noticed that outer space appeared dark. Which of the following best describes the mentioned scenario?

Angkasawan yang berada di Bulan melihat angkasa lepas kelihatan gelap. Manakah antara berikut menerangkan situasi di atas?

- A** No particles exist to reflect light / Tiada zarah-zarah untuk memantulkan cahaya
- B** Subtraction of coloured light / Penolakan cahaya berwarna
- C** All light penetrates the outer space / Semua cahaya menembusi angkasa lepas
- D** Light cannot travel into outer space / Cahaya tidak boleh sampai ke angkasa lepas



ANSWER: A

IMPORTANT DATES

**14
NOV
2023**

Registration
Open

**29
JAN
2024**

Registration
Close

**3
FEB
2024**

Competition
Day

**14
FEB
2024**

Result
Announcement

REGISTRATION FEE

JOIN UNDER A
SCHOOL

RM40
PER STUDENT

JOIN AS
INDIVIDUAL

RM60
PER STUDENT

HOW TO REGISTER

Registration can be made at
www.contesthub.my

CONTACT US

GALAXY EXPLORER COMPETITION SECRETARIAT

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