

Beauty Of Solar System

Sanuli Sandanima Herath

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Mahamaya Girls' College
Kandy
Grade 7

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To my
Loving mother



Foreword

In an increasingly complex global future, the "Hemamala Upahara" book project, led by Mahamaya Girls' College, stands as a turning point in girls' education. Over a decade, it has successfully nurtured thousands of children to become young authors.

This year, by collaborating with other schools, we aimed to provide students with a wealth of new experiences. The goal was to develop multi-faceted skills, including communication, values, and creative growth. As a result, children have written books that pay tribute to Princess Hemamala, who brought the Sacred Tooth Relic—the supreme symbol of the Buddhist world—to the Hill Country (Kandy).

I extend my gratitude to everyone involved, including the students who contributed their creativity and the teachers who guided them.

Shashikala Senadhira

Principal

Mahamaya Girls' College

Congratulatory Message

It is a great honor for me, as the Governor of the Central Province, to send a congratulatory message for the launch of the books created through the Hemamala Tribute Book Creation Project initiated by Mahamaya Girls' College, Kandy.

Education is the fundamental foundation for the progress of society, and it is further strengthened through books and literary creations. It is clearly commendable that students' talents, creativity, and intellectual abilities are emerging through projects such as this.

I believe that this book creation project will provide valuable knowledge and a precious literary contribution not only to the students but to the entire society. Furthermore, I hope that through such efforts, future writers who will bring pride to Sri Lanka will emerge.

I extend my heartfelt appreciation and blessings to the Principal, the academic staff, the students, and everyone involved who dedicated themselves to this successful endeavor. I wish this project and the book launch ceremony great success.

Sarath B.S. Abeykoon

Governor, Central Province

Emeritus Professor, University of Peradeniya

2026-05-10

Congratulatory Message

I highly appreciate the noble and outstanding effort of the Principal and the academic staff of Mahamaya Girls' College, Kandy, the student daughters, the students of other participating schools, and everyone who dedicated themselves to plan and implement this book publication project. The project was organized under the leadership of Mahamaya Girls' College, Kandy, with the participation of other schools in the Kandy Zone, with the aim of encouraging children toward book creation within the current school system, as a tribute to Hemamala Kumariya who brought the Sacred Tooth Relic to Sri Lanka.

For several decades, Sri Lanka has been committed to providing free, compulsory, quality, and equitable education to all children, thereby producing a future generation of intelligent and skilled citizens. In such a context, this book creation program for school children helps develop creative ability, critical thinking, and other positive qualities for a balanced and well-rounded personality, and contributes to building a future knowledge-based society.

May all activities of the Hemamala Tribute Book Creation Project be successful through the blessings of the Sacred Tooth Relic.

Pradeep Nilanga Dela
Diyawadana Nilame,
Sri Dalada Maligawa.
2026.05.10.

Solar system

1. Mercury
2. Venus
3. Earth
4. Mars
5. Jupiter
6. Saturn
7. Uranus
8. Neptune

Astronomers

1. Thales
2. Pythagoras
3. Aristotle
4. Aristarchus
5. Claudius
6. Hypatia
7. Nicolaus Copernicus
8. Tycho Brahe
9. Galileo Galilei
10. Johannes Kepler
11. Isaac Newton

Solar system

There are 8 planets in the solar system.

- 1) Mercury
- 2) Venus
- 3) Earth
- 4) Mars
- 5) Jupiter
- 6) Saturn
- 7) Uranus
- 8) Neptune

1.Mercury



- Mercury is the smallest in our solar system and the closest to the sun.
- There are no moons in mercury.
- It takes 88 days to revolve around the sun.
- It's the fastest planet in the solar system.
- It can reach 430c during the day and 180c during the night.
- Mercury looks like a gray rock with lots of holes. Those holes are known as craters.

2.Venus



- Venus is the second planet in the solar system.
- There are no moons in Venus.
- Venus is the brightest and the hottest planet in the solar system.
- It's revolutionary period around the sun is 255 days.
- Venus is also known as 'planet of love.
- After the moon Venus is the brightest object in the night sky.
- Why is Venus hotter than mercury?

Even though mercury is closer to the sun, Venus is hotter.

Mercury has no atmosphere, so it's heat escapes into space at night.

Venus has very thick atmosphere of carbon dioxide, so the heat gets in, but it can never get out.

3.Earth



- Earth is the 3rd planet in the solar system.
- The Earth has one moon.
- Earth is shaped like a sphere.
- Earth is also known as the ‘blue planet’.
- Earth is the only planet where living things can survive.
- Earth is the only planet in solar system where water can be present in its three states:
Solid, liquid, gas

4.Mars



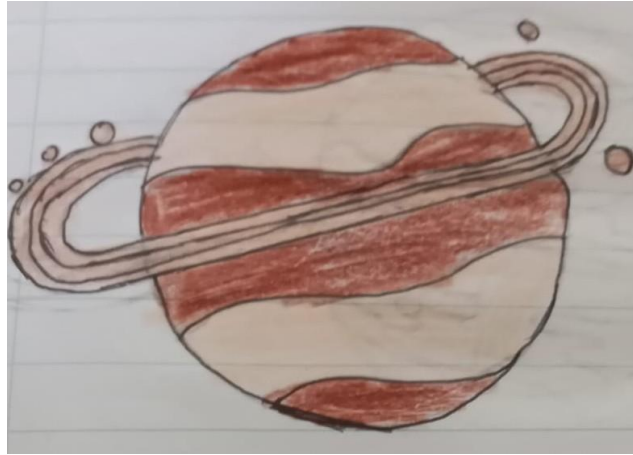
- Mars is the 4th planet in the solar system.
- Mars has two moons called Phobos and Deimos.
- Mars is also known as the red planet.
- Mars takes 687 days to revolve around the sun.
- Mars is terrestrial planet.
- There is red iron on the soil.

5.Jupiter



- Jupiter is the fifth planet from the sun.
- Jupiter has 80 moons.
- It's covered with clouds.
- In comparison to earth, Jupiter's magnetic field is fourteen times stronger.
- Jupiter is the oldest planet in our solar system.
- Jupiter is known as the 'solar system's vacuum cleaner'. Because of its immense gravity and location near the inner part of our solar system.

6.Saturn



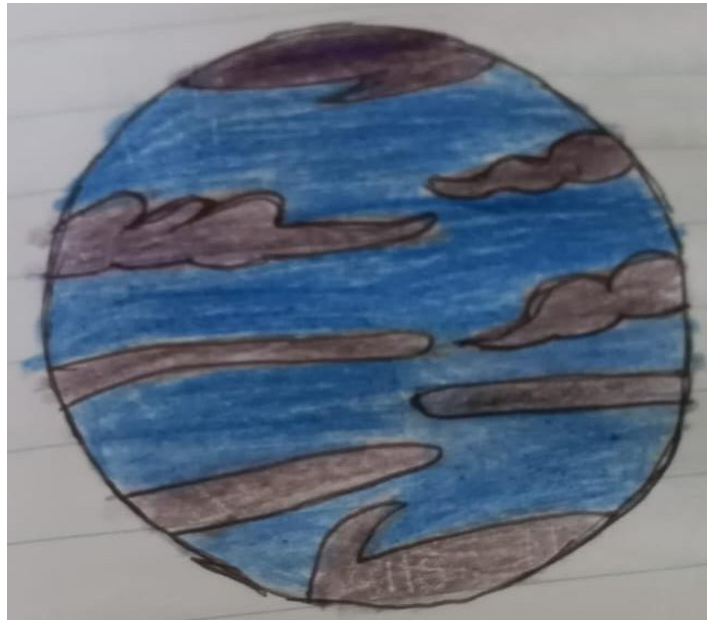
- Saturn is the 6th planet in our solar system.
- Saturn has 82 moons.
- Saturn is a gas giant.
- There are large rings around Saturn.
- It is one of the outer planets.
- Its rings are made of ice and rock particles.

7.Uranus

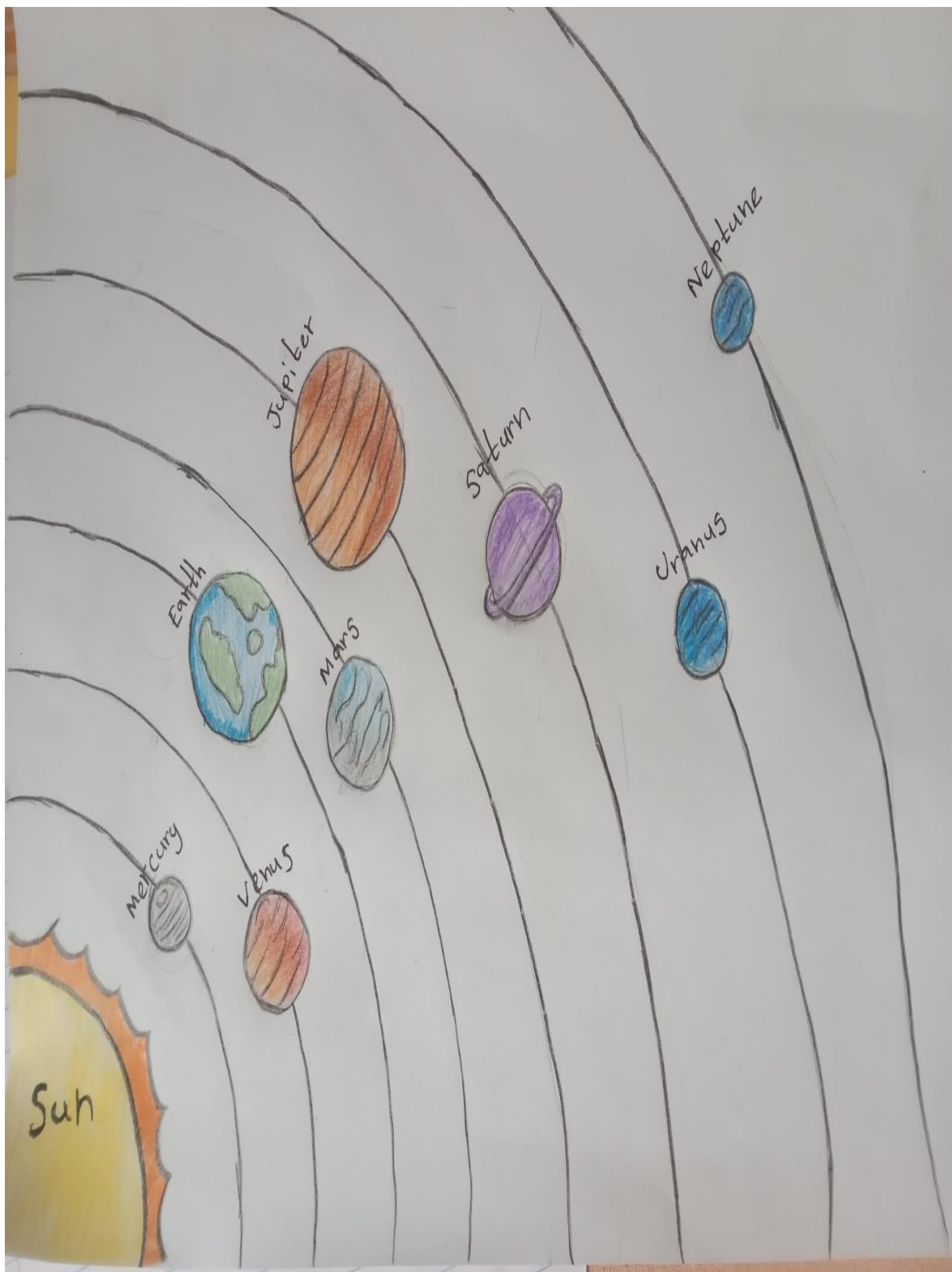


- Uranus is the 7th planet from the sun.
- Uranus has 27 moons.
- Its surface is gas.
- Uranus is the coldest planet in the solar system.
- Uranus is made up of ice.
- Uranus has a faint ring system.

8.Neptune

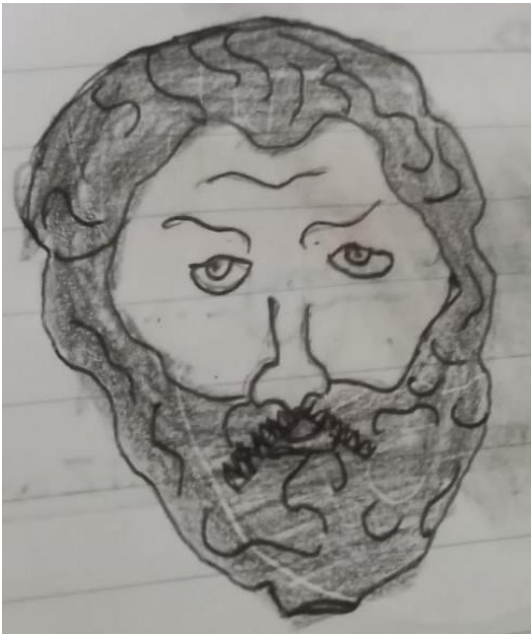


- Neptune is the 8th and the last planet in the solar system.
- There are 13 moons in Neptune.
- Neptune is bright blue in color.
- Neptune is called an ice giant.
- The winds in Neptune are the most powerful in the entire solar system.
- Neptune does not have a solid surface.



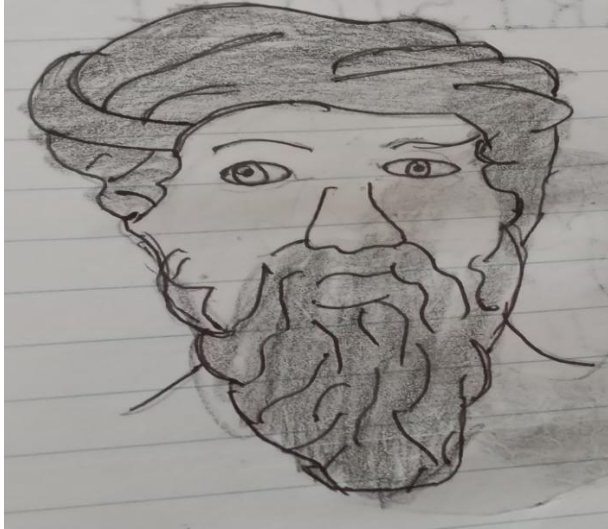
Astronomers

1. Thales



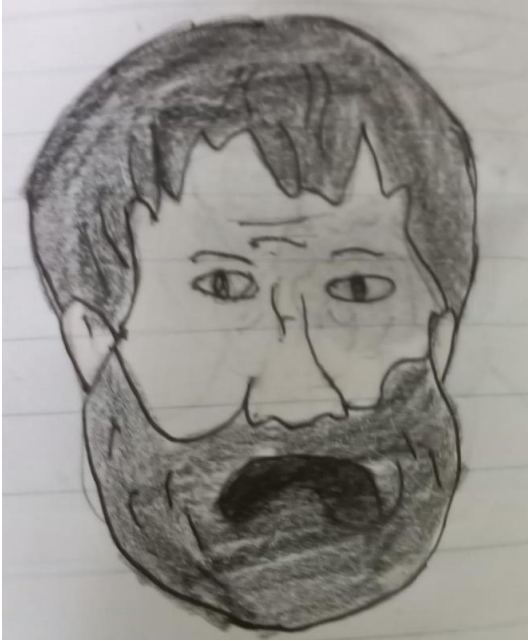
- Thales of Miletus is known as the father of astronomy.
- He said that the stars were not gods but fire balls.

2.pythagoras



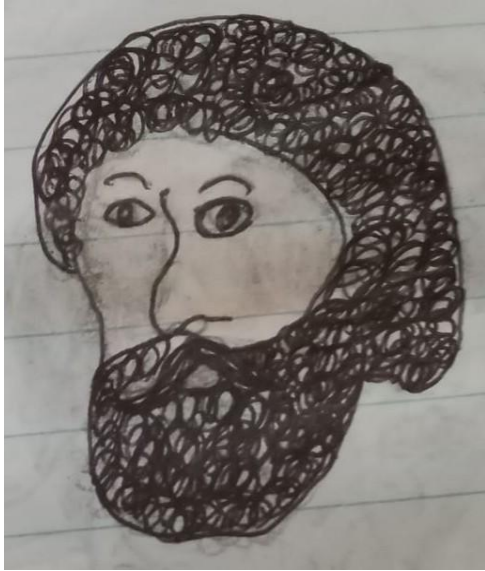
- First to teach that the earth was spherical.
- The first to identify the morning star and the evening star as the same celestial object.

3.Aristotle



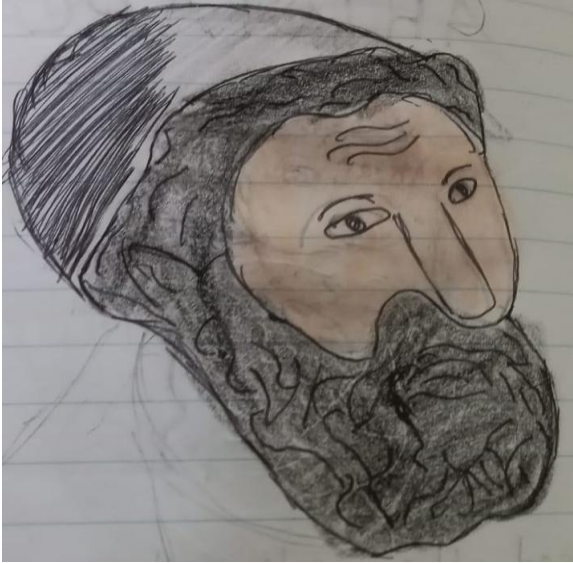
- He said that the earth was round using the shadow of the during a luna eclipse.
- Proposed the geocentric model of the universe.

4.Aristarchus



- Proposed the heliocentric model of the universe.
- He stated that other stars were similar in nature to the sun, although much further away from earth.

5. Claudius



- Baked the geocentricism using the retrograde motion of planets as evidence.
- Composed the book almagest on the apparent motions of the stars and planetary paths.

6.Hypatia



- Daughter of Theon of Alexandria.
- The first female astronomer.
- She studied the 4 conic sections.

7.Nicolaus Copernicus



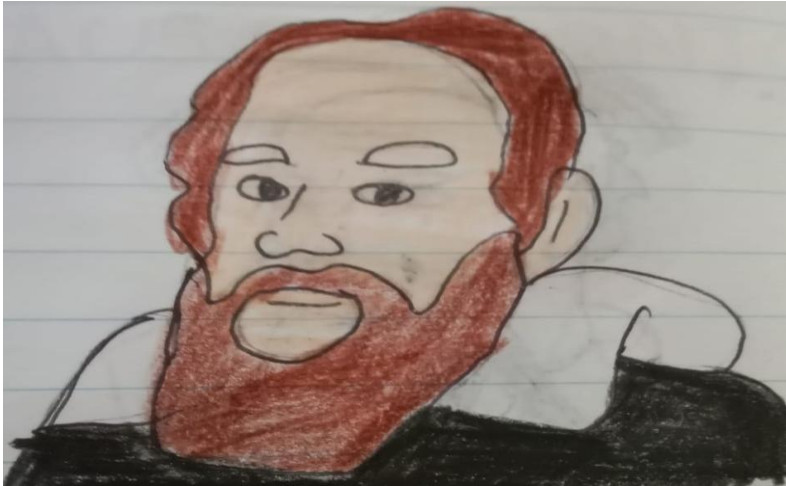
- Known as the father of modern astronomy.
- Baked the heliocentric model.

8. Tycho Brahe



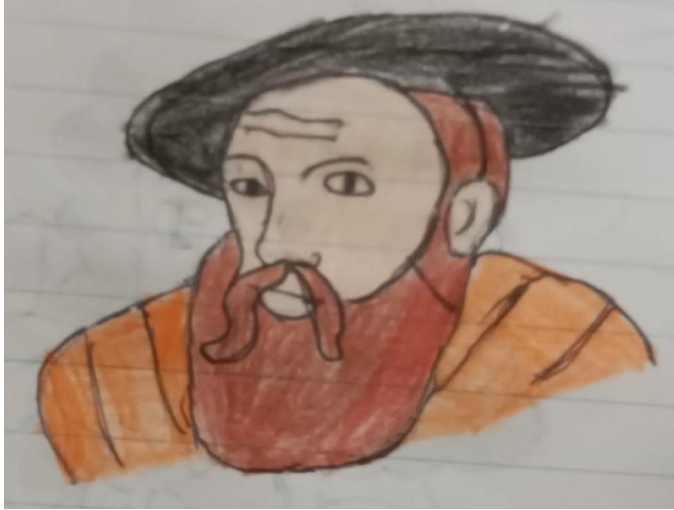
- He was a Danish astronomer.
- He is known for his comprehensive and unprecedentedly accurate astronomical observations.
- He was the first to observe a new star.

9. Galileo Galilei



- Known as the father of modern observation astronomy.
- Observed and discovered Galileon moons.
- Also observed moon craters and sunspots.

10. Johanna Kepler



- The proposed three laws of planetary movements are known as the Kepler laws.

11.Isac Newton



- Proposed the law of universal gravitation.

Afterword

With the approval of the Ministry of Education, this research-based project has empowered thousands of student authors for over ten years. Educationists recognize it as a program that significantly enhances the quality of school education.

In alignment with modern educational reforms, encouraging students to author a research work is a milestone in this journey. In this digital age of "Smart" technology, the modern school must demonstrate through research that books and technology should be used together. This is because the unique joy a child receives from a book cannot be replaced by anything else.

To prevent children from drifting away from books—which remain our primary educational tool and storehouse of human knowledge—Mahamaya Girls' College has spearheaded the "Hemamala Upahara" project for many years. Its primary objectives are to foster academic discipline, promote values, and pay tribute to Princess Hemamala, who fulfilled a historic mission to empower women.

We express our gratitude to the Principal, teachers, parents, alumni of Mahamaya Girls' College, representatives of other schools, the Diyawadana Nilame, and the staff of the Sri Dalada Maligawa (Temple of the Sacred Tooth Relic) for their support.

Seneviratne Mahalekam
(Project Creator)