

Aryabhata - The Great Indian Mathematician and Astronomer

- An inspiring journey through the life and contributions of Aryabhata.



Introduction

- ▶ Aryabhata was a renowned Indian mathematician and astronomer born in 476 CE. He was among the earliest to record astronomical observations and mathematical theories.

Early Life and Education

- ▶ Aryabhata was likely born in Kusumapura (modern-day Patna) and studied at the ancient Nalanda University.

Major Works

- ▶ His most famous work is the Aryabhatiya, a comprehensive treatise on mathematics and astronomy.

Mathematics Contributions

- ▶ • Introduced the concept of Zero
- ▶ • Approximated the value of π as 3.1416
- ▶ • Worked with algebraic identities and trigonometry.

Astronomy Contributions

- ▶ • Proposed that the Earth rotates on its axis
- ▶ • Explained eclipses through shadows, not mythology
- ▶ • Suggested a heliocentric model.

Legacy

- ▶ • Influenced Indian and global science
- ▶ • Aryabhata Satellite launched in 1975 in his honor
- ▶ • Featured on Indian stamps and currency.

Quotes and Fun Facts

- ▶ • Used letters to represent numbers
- ▶ • Calculated the length of the year with great accuracy

Conclusion

- ▶ Aryabhata's pioneering work laid the foundation for future advancements in mathematics and astronomy.

Thank you...