

SESSION :02

CLASS : 04

SUBJECT : SOCIAL SCIENCE

CHAPTER NUMBER: 18

CHAPTER NAME :PEOPLE WHO MAKE A DIFFERENCE

SUBTOPIC : SCIENTISTS

CHANGING YOUR TOMORROW

LEARNING OBJECTIVES:

Children will come to know

- Great people who inspires us.
- Scientists

SCIENTISTS

- **Mathematics, astronomy and medicine were well-developed sciences in ancient India.**
- **The decimal system of numbers, which everyone uses today, was developed in India.**
- **The Ayurveda system of medicine, which is still popular, was developed in India thousands of years ago.**
- **Surgery was also performed in ancient India. The study of the stars and the Solar System was also well developed.**

Aryabhata was a great mathematician and astronomer of ancient India

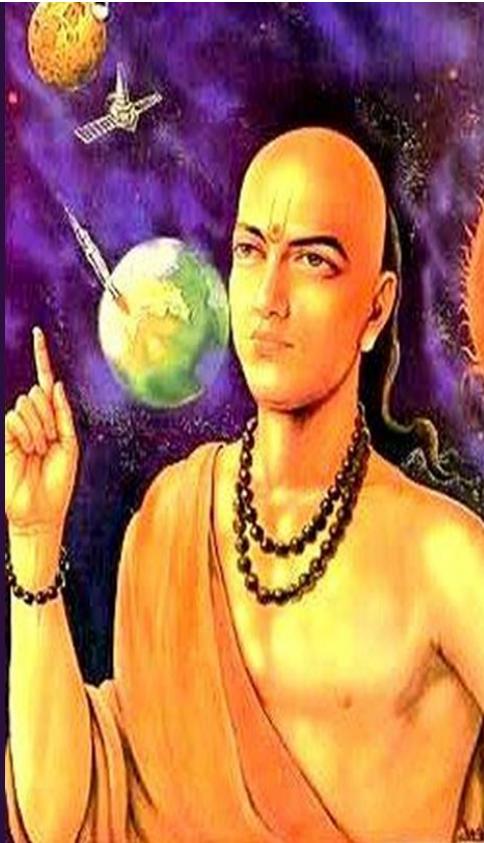


- He founded maths - decimal system, Trigonometry, Zero, equation etc.
- He was a famous scientist.
- He was born on 476 AD and died on 550 AD.
- He was the first of the major mathematician and astronomers.
- First satellite in India was launched in his name.
- At the age of 23, his book Aryabhatiyam.
- He found that rotation of the earth.
- He was the HOD of Nalanda university.

Varahamihira, was a well-known astronomer.

VARAHAMIHIRA

**Known for his advanced works
on astronomy, architecture,
eclipses and Mathematics far
ahead of his times**



- He was an astronomer and mathematician.
- He was born in Brahmin family, in 499 AD in Madhya Pradesh.
- His father was a worshipper of the sun.
- His father taught Varahamihira, the astronomy.
- He found that plants and termites are the indicators of underground water.
- He had the mastery over Sanskrit grammar.
- He died in 587 AD in Ujjian.

- He was born on 300 BC or 2400 years ago.
- He contributed to the art and science of Ayurveda.
- He also told that everything is depends on the energy of the planets.
- Health and disease are not predetermined and life may be prolonged by human effort and attention to lifestyle.
- He told about the treatment of diabetes, tuberculosis etc.
- He found about the functions of 10,000 medicinal plants.
- He supported yoga.

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Changing your Tomorrow

Life tips by Dr. Aparna

CHARAKA

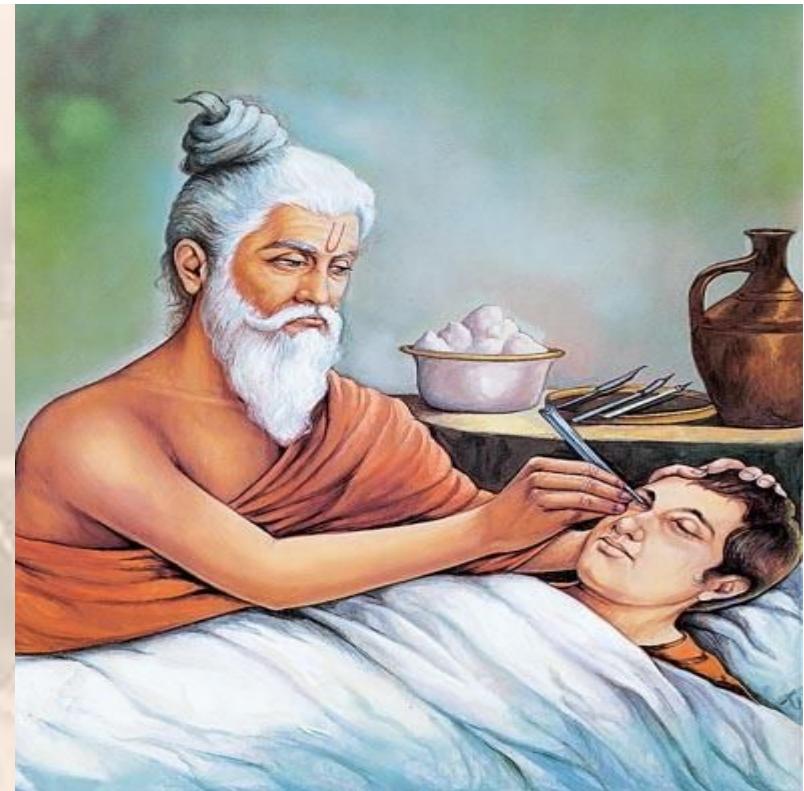
The Ancient Scholars of Ayurveda

Sushruta a surgeon



SUSHRUTA

FIRST COSMETIC
SURGEON OF INDIA



Father of surgeon- Sushruta

- Birth- 600 BC or 2600 years.
- He was a great sage.
- He lived in Banaras (city in the bank of the river Ganga).
- He did plastic surgery in those days.
- He did surgeries on fractures, stones etc.
- He supported yoga.
- He told our body is made of 5 things- air, fire, earth, water, space.
- Many treatment of the diseases can be found in his book Sushruta Samita.
- He told to practice the surgery on vegetables, fruits like watermelons etc.

Some of the well-known scientists India has produced in the modern world.

S Ramanujan



J C Bose



C V Raman



HOMI BHABHA: FATHER OF INDIAN NUCLEAR PROGRAMME



SUBRAHMANYAN CHANDRESEKHER (1910-1995)





HOMEWORK

Do the short Q/A in the notebook.

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- **Scientists**

THANKING YOU
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