# (5) Bright Tradition of Science in India (Folklore)

## - Mr. Suresh K. Prajapati Teacher HSC Science

India was actively contributing to the field of science and technology centuries long before modern laboratories were set up. Here is a list of the ancient Indian discoveries that introduced and strengthened the fundamentals of modern science.

"We owe a lot to the ancient Indians, teaching us how to count. Without which most modern scientific discoveries would have been impossible."

#### -Albert Einstein

One of the oldest civilizations in the world, the Indian civilization has a strong tradition of science and technology. Ancient India was a land of sages and seers as well as a land of scholars and scientists. Research has shown that from making the best steel in the world to teaching the world to count, India was actively contributing to the field of science and technology centuries long before modern laboratories were set up. Many theories and techniques discovered by the ancient Indians have created and strengthened the fundamentals of modern science and technology. While some of these groundbreaking contributions have been acknowledged, some are still unknown to most.

Here is a list of 16 contributions, made by ancient Indians to the world of science and technology, that will make you feel proud to be an Indian. 1. The Idea of Zero, 2. The Decimal System, 3. Numeral Notations, 4. Fibbonacci Numbers 5. Binary Numbers, 6. Chakravala method of Algorithms, 7. Ruler Measurements 8. A Theory of Atom, 9. The Heliocentric Theory, 10. Wootz Steel, 11. Smelting of Zinc 12. Seamless Metal Globe, 13. Plastic Surgery, 14. Cataract Surgery, 15. Ayurveda, 16. Iron-Cased Rockets



Concluding, India's civilization valued science and knowledge above all and someof the most extraordinary scientific advances took place there. These include the earliest astronomy, geometry, number theory, the Indian numeral system, the idea of physical laws and invariance, the earliest formal system to describe a complex natural phenomenon (as in Pāṇini's computer program-like grammar that was not rivaled for 2,500 years), a very subtle Yoga psychology, and the idea of immunization in medicine.

This creativity did not end with the ancient period. For India's continuing relevance in the world of science, see The Indian foundations of modern science.



# (6) Oxford University

## Vidhya Rana (Prin. E.M.) Divya Parekh

Establishment: The University of Oxford is a collegiate research university in Oxford, England. There has been evidence of teaching at mise place since arly as 1096, making it the oldest university in the English-speaking world and the world's second-oldest university in continuous operation

- > Details:
- ➤ Mission: To be a global centre of excellence for life long learning
- ➤ **Motto**:- The Lord is my light
- > Type:- Public research university Ancient university
- ➤ **Budget** £2.145 billion (2019-20)
- **Established**:- □ 1096; 926 years ago
- > CEO: Andrew D. Hamilton (6 Oct 2009–)
- ➤ Chancellor :- The Lord Patten of Barne
- ➤ Vice-Chancellor :- Louise Richardson
- > Academic staff: 6,995 (2020)
- > **KEYFACTS** (2022)
- \*350+ graduate courses
- ➤ \*4 academic divisions, plus the Department for Continuing Education
- > \*70+ departments
- ➤ \*44 colleges and halls
- \*Four main courses availed in Oxford
- ➤ \*Humanities
- ➤ \*Mathematical
- > \*Physical
- \*Medical science and Social science
- ▶ **Bodelian Library**: The Bodleian library is a group of 28 libraires, and hold more than 12 million printed items, over 80,000 e-journals, and outstanding special collections including rare books and manuscripts, maps, music art and printed articles It's a main research library and it holds its name from its founder Sir Thomas Bodley. It is 420 years old library.
- Alumni of Oxford: Renowned men and women have studied or taught at the University throughout its history. Among them are 28 British Prime Ministers, at least 30 international leaders, 55 Nobel Prize winners, and 120 Olympic medal winners. In which we have Dr. Manmohan Singh, Prime Minister of India Indira Gandhi, former Prime Minister of India, Professor Stephen Hawking, physicist, Chief Justice Mrs Sujata Vasant Manohar, former Judge of the Supreme Court of India, Bill Clinton former President of the United States, Zulfiqar Ali Bhutto, former President and Prime Minister of Pakistan have Been famous alumni from this university.
- Conclusion: We in this school working from better to this best since has 38 years with an aim and a not mat to make our students genius by giving them proper education and vision with our research based learning of different projects such as paramani, hearing life skills, Sapna karo sakar, 1000 project exhibition. NCSC Research project and many more, we are confident that by next to gears ours students will be either in par with IAS, IPS Presidents CFO, Psychologists, Entrepreneurs or upto of the same standard.







