

Nature of Science



Nature of Science

- Science is a particular way of looking at nature

Rising sun, an ordinary man pays obeisance to the Sun-God for bestowing the earth with light and energy and may offer prayer to propitiate him.



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Another walker with a scientific bent of mind or scientific attitude, while recognizing it to be the source of all energy on the earth, may wonder where the sun gets its energy from, tries to understand the process of energy generation and may think of duplicating this process on the earth for the benefit of humankind.



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At the time of an epidemic, ordinary people take to praying and seek divine intervention to save humanity.



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A scientist, on the other hand, seeks to isolate the pathogen responsible for the epidemic and develops preventive and curative strategies to fight the disease and save people.



Nature of Science

- Science is a rapidly expanding body of knowledge

A highly dynamic body of knowledge



Nature of Science

- Science as a interdisciplinary area of learning.
Several scientific topics fall under more than one discipline.
The trend of studying more than one discipline, or interdisciplinary subjects.



Nature of Science

- Science is truly an international enterprise.

Most big projects in science are undertaken by teams of scientists drawn from many countries.



Nature of Science

- Science is always tentative

Scientists are always searching for evermore refined theories. That is how science prospers. If everything were final, there would be nothing new to discover, and science would never progress.



Nature of Science

- Science promotes scepticism ; scientists are highly sceptic people.

Science looks at everything with suspicion.



Nature of Science

Science demands perseverance from its practitioners.

This is the tenacity and perseverance that science demands from scientists.

The scientist works alone on his creative thought all

the way to the discovery or invention, while at other

times the scientist can make only a beginning and then

others join him/her in developing the idea further.