

# NATURE OF SCIENCE

## NATURE OF SCIENCE

Science as

★ A systematized body of Knowledge

## NATURE OF SCIENCE

Science as

- ★ A method of enquiry / a way of investigation.



## NATURE OF SCIENCE

Science as

- ★ An attitude or outlook towards life / a way of thinking

## SCIENTIFIC ATTITUDE :

Scientific attitude is defined as open mindedness, a desire for accurate knowledge, confidence in procedure for seeking knowledge and expectation that the solution of the problem will come through the use of verified knowledge.



# SCIENTIFIC ATTITUDE : CHARACTERISTICS

Objectivity

# SCIENTIFIC ATTITUDE : CHARACTERISTICS

Intellectual honesty

## SCIENTIFIC ATTITUDE :

An attitude can be defined as a way of regarding things; it can also be considered as a feeling or pattern of thoughts.



# SCIENTIFIC ATTITUDE : CHARACTERISTICS

## SCIENTIFIC ATTITUDE : CHARACTERISTICS

Freedom from superstitions & false/  
pseudo-beliefs

## SCIENTIFIC ATTITUDE : CHARACTERISTICS

Willingness to change beliefs



## SCIENTIFIC ATTITUDE : CHARACTERISTICS

Ability to distinguish fact & fiction

# SCIENTIFIC ATTITUDE : CHARACTERISTICS

Upto datedness

## SCIENTIFIC ATTITUDE : CHARACTERISTICS

Methodical way of solving problems



## SCIENTIFIC ATTITUDE : CHARACTERISTICS

Judgment based on scientific facts

## SCIENTIFIC ATTITUDE :

Scientific attitude is really a composite of a number of mental habits, or tendencies to react consistently in certain ways to a novel or problematic situation.

# SCIENTIFIC ATTITUDE : CHARACTERISTICS

Curiosity



## SCIENTIFIC ATTITUDE : CHARACTERISTICS

Belief in cause and effect relationship

# SCIENTIFIC ATTITUDE : CHARACTERISTICS

Critical mindedness

## SCIENTIFIC ATTITUDE : CHARACTERISTICS

Respect of others opinion if convincing





*Internalize...*

*Think Scientifically....*

*Explore Creatively...*

*Continues...*

## EVOLUTION OF SCIENCE

Other scientists of the period were

Robert Hook : cell : Micrographia

Blaise Pascal : “Treatise on the Equilibrium of Liquids”

Francis Bacon : Inductive method

Newton : Principia Mathematica

They emphasized modern experimentation and reason over traditional considerations.



## Development of Science and Technology in Ancient India

In Siddhantasiromini written by Bhaskara in the 12th century cover topics such as mean longitudes of planets, lunar eclipse , solar eclipse, latitudes of planets , rising and setting , the moons ,crest and parts of the sun.

Ayur Veda a traditional system of Medicine originated before 2500 BC