

→ Science and Humanism (Class Notes)
In that is Scientific Revolution &
Technological Aspect → Innovation, discoveries and inventions
of scientific instruments and machines

→ In which particular point of time

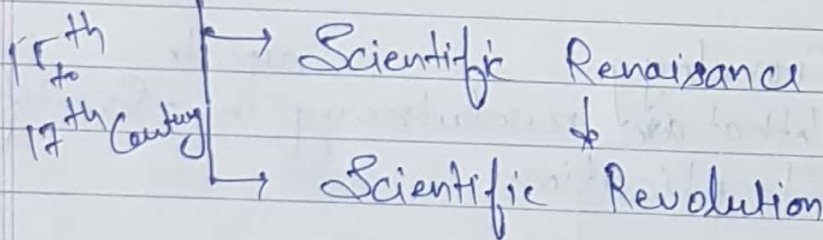
Revolution
↓

- Speed and production
- Sudden and Radical Change
- Man induced agencies

Evolution
↓

- Inventions
- Happens or Occurs over a period of time
- Many times it happens naturally

→ J. Balwyn



Scientific Renaissance

→ During that time Scientist were recovering or re-discovering the ancient scientific knowledge which was forbidden.

Scientific Revolution

→ Addition of new knowledge to old knowledge after analyzing the old knowledge with new techniques, methods, devices which evolved the new set of knowledge system.

Most Important
Three landmark years

1543: Copernicus's book (On the

1632: Galileo's Book (Dialogue

1687: Newton's Book (Principia)

discourse
↓
heliocentricism
Gravitation

→ During Scientific Revolution various theories were also developed parallel to innovations

→ Other works

1600, William Gilbert → De Magnete } Magnetism
Robert Cook

→ Francis Bacon

known as Empiricist → Defined the methods and methodology for scientific world to work on scientific experiments. known as Baconian Methodology

3 things for remembering

- ① Chronology
- ② What are revolutionary in Scientific Revolution aspects
- ③ Implications

→ Few ^{unique} things happened in this Era.

- 4 Main characteristics or attributes of Scientific Revolution
- 1- Empiricism
 - 2- Experimentation.
 - 3- Mathematization
 - 4- Institutionalization.

Arun Bala (Indian Scientist) → multicultural influences.

Date / /
Page

Empiricism → Basing your arguments on empirical facts.

Mathematization - Quantitative measurements in which everything can be measured or converted in numerical value.

→ What are the implications of Scientific Revolution?

→ Better life

→ Connecting to other part of World

→ Multicultural Influences.

→ Debate between Exact Sciences and Non-exact Sciences.

Two major impacts

Stages for Exact Sciences

→ experimentation → documentation → theorisation → practice.

→ During Renaissance humanism became center of perceptions. or everything