

Measurement of Time



Time is a fundamental concept that helps us organize our daily lives and understand various natural phenomena.

Measuring time accurately is essential for activities such as cooking, scheduling, and scientific experiments.

Units of Time:

Second (s):

The basic unit of time measurement.

Smallest unit commonly used.

Symbol: s.



Minute (min):

1 minute = 60 seconds.

Symbol: min.



Hour (h):

1 hour = 60 minutes.

Symbol: h.



Day (d):

1 day = 24 hours.

Symbol: d.

Days are often used to measure longer periods, like the time it takes for the Earth to complete one rotation.



Week (wk):

1 week = 7 days.

Symbol: wk.

Used for planning schedules and events.

Month (mo):

1 month is approximately equal to the time it takes for the Moon to orbit the Earth.

Different months have varying numbers of days.

Year (yr):

1 year is approximately equal to the time it takes for the Earth to orbit the Sun.

Symbol: yr.

Instruments for Measuring Time:

Clocks:

Mechanical, digital, and analog clocks are used to measure time.

Clocks come in various forms, such as wall clocks, wristwatches, and alarm clocks.

Stopwatches:

Used for precise measurement of short time intervals, like in sports events.

Calendars:

Used to keep track of days, weeks, months, and years.

Help us plan and organize our activities.

DAYS OF THE WEEK

MONDAY

TUESDAY

WEDNESDAY

THURSDAY

FRIDAY

SATURDAY

SUNDAY



Concepts Related to Time:

24-Hour Clock:

Used to represent time in a 24-hour format.

Eliminates confusion between AM (ante meridiem) and PM (post meridiem) time.



Time Zones:

The Earth is divided into different time zones based on longitude.

Each time zone is generally one hour ahead or behind its neighboring zone.

Leap Year:

A year that has an extra day (February 29) to keep our calendar synchronized with the Earth's orbit around the Sun.

Leap years occur every 4 years.



Daylight Saving Time (DST):

Some regions adjust their clocks forward by one hour during the summer months to make better use of daylight.