VIDYA BHAWAN BALIKA VIDYAPEETH

STUDY MATERIAL SCIENCE CLASS-VII

Date 29/07/2020

▶ 13. MOTION & TIME

Units of time:

Second is the basic unit (or standard unit) of measuring time and it is represented by symbol s.

The larger units of time are minute and hour. i.e. $\underline{1h=60min}$ and $\underline{1min=60}$ s. Different units of time are used depending on the need. e.g. in order to express the longer time interval, the bigger units of time are used, i.e. day, month and year.

i.e. 1 day = 24 h, 1 month = 30 days and 1 year = 12 months

Note: Nowadays, most clocks or watches have an electric circuit with one or more cells. These clocks are called quartz clocks.

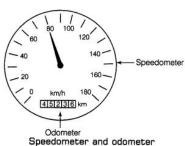
The time measured by quartz clocks is much more accurate than that by the clocks available earlier.

Measuring speed:

Speedometer & Odometer:

The **speedometer** is an instrument on a vehicle's dashboard which indicates the speed of the vehicle when it is moving. This instrument tells us the speed of a running vehicle at that instant of time in kilometre per hour.

An instrument which is used for measuring the distance travelled by a vehicle is known as an **odometer**. This instrument measures the distance in kilometres. Usually, a small rectangular window within speedometer dial with the symbol km (as shown in the figure) gives the (metre) odometer reading.



Teacher: Poonam Kumari

ASSIGNMENT:

- 1. What is the basic unit of time?
- 2. Which unit is used to express long time interval?
- 3. What is odometer?
- 4. Which instrument is used to measure speed of a vehicle?
- 5. Draw the diagram of speedometer & odometer.