

Document Title (Heading Style 1)

Topic 1 (Heading Style 2)

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Topic 2 (Heading Style 2)

Subtopic A (Heading Style 3)

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Subtopic B (Heading Style 3)

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How do we check color contrast? We can use the [WebAIM Color Contrast Checker](#).

Topic 3 (Heading Style 2)

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Topic 4 (Heading Style 2)

Day of the Week	Start Time	End Time
Monday	8:00 AM	3:00 PM
Tuesday	8:00 AM	3:00 PM
Wednesday	9:00 AM	3:00 PM
Thursday	8:00 AM	3:00 PM
Friday	8:00 AM	12:00 PM

Kinematics

2011-12

DATE
PAGE 01

In Kinematics, we study the relation b/w parameters of motion not the cause of motion.

PARAMETERS

- | | |
|---------------------|-----------------|
| 1- Position | 6- Avg. speed |
| 2- Displacement | 7- Inst. speed |
| 3- Distance | 8- Acceleration |
| 4- Average velocity | |
| 5- Inst. velocity | |

POSITION & DISPLACEMENT (vector)

- Change in position vector is called displacement. It is directed along initial to final position.
- Its magnitude is min. dist. b/w initial & final position
- It is vector quantity.

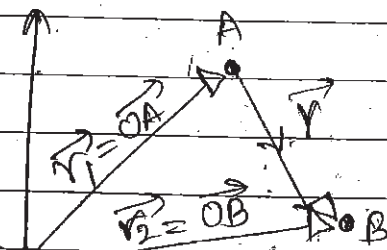
किसी Particle

को exist करने

के लिए

Cartesian plane

जरूरी है



Any particle requires Cartesian plane for its existence

$$\text{change} = \Delta = \text{final} - \text{initial}$$

$$\Delta \vec{r} = \vec{OB} - \vec{OA}$$

$$\vec{D} = \vec{AB} \quad (\because \vec{AB} = \vec{OB} - \vec{OA})$$

यह जरूरी नहीं होता है कि displacement वाली लाइन ही particle का path है

DISTANCE (scalar)

It's not necessary that displacement is only the path followed by particle

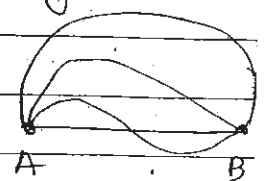
Length of path travelled is known as distance.

Distance b/w two points A & B can have many values. any value नहीं हो सकती है B coz

$$\text{Distance} \geq |\text{Displacement}|$$

disp. से कम नहीं हो सकती है

distance won't be less than displacement



Many paths can be travelled