

9TH GRADE – SCIENCE

MOTION

INTERACTIVE WORKSHEET 01

I. Choose the C.G.S. Unit & S.I unit

S.No.	Physical quantity	Formula	C.G.S. unit	S.I unit
1.	distance (d)	-	cm	
2.	displacement ($\bar{s}$)	-		m
3.	speed	$\text{speed} = \frac{\text{distance}}{\text{time}}$	cm^{-1}	
4.	velocity ($\bar{v}$)	$\text{velocity} = \frac{\text{displacement}}{\text{time}}$		ms^{-1}
5.	average speed	$V_{av} = \frac{\text{total distance}}{\text{total time}}$	cm^{-1}	ms^{-1}
6.	average velocity	$\bar{V}_{av} = \frac{\text{total displacement}}{\text{total time}}$	cm^{-1}	ms^{-1}
7.	acceleration	$a = \frac{\text{change in distance}}{\text{change in time}} = \frac{\Delta v}{\Delta t}$		

II. Fill in the blanks

S.No.	Physical quantity	Formula	Scalar / Vector
1.	distance (d)	-	_____
2.	displacement ($\bar{s}$)	-	_____
3.	speed	$\text{speed} = \frac{\text{distance}}{\text{time}}$	_____
4.	velocity ($\bar{v}$)	$\text{velocity} = \frac{\text{displacement}}{\text{time}}$	_____
5.	average speed	$V_{av} = \frac{\text{total distance}}{\text{total time}}$	_____
6.	average velocity	$\bar{V}_{av} = \frac{\text{total displacement}}{\text{total time}}$	_____
7.	acceleration	$a = \frac{\text{change in distance}}{\text{change in time}} = \frac{\Delta v}{\Delta t}$	_____



AIMS-INDIA



LIVEWORKSHEETS