Name):		()	Sec:	Date:
Cha	apter '	1 1	Measurement	ts		
Phys	ical Qu	ıantities	and SI Units			
1.	There	are alto	gether	pl	nysical qua	antities.
2.	Physic	Physical quantities are also known as quantities.				
3.	In Sin	gapore a	and in many othe	er countrie	es, one set	of units is used to
		• .	•			the French and is
4.						symbol of the SI unit for
			se quantities list			
Ва	se Qua		oo quariii.ioo iioi		I Unit	Symbol for SI Unit
Len	gth					
Mas	SS					
Tim	ie					
	ctric cu					
Thermodynamic temperature Amount of substance						
AIII	ount of	Substan				
•						
		nt of Le	_			
			unit of length ?			
6.	There	are 4 in	struments comm	nonly used	to measu	ire length.
	a.	These a	are the			
	i.	M	R			
						<u> </u>
	iii.	D	C			
	iv.	D	M		S	G
	b.	Of thes	e, which instrum	ent has th	ne greatest	t precision?
	C.	Of thes	e, which instrum	ent has th	ne least pre	ecision?

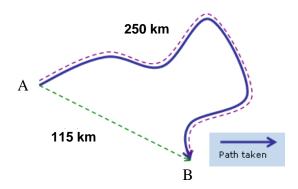
C	d. If I wanted to measure the length of a room, which instrument		
	would I use?		
€	e. If I wanted to measure the thickness of a book, which instrument would I use?		
f	f. If I wanted to measure the thickness of a coin, which instrument would I use?		
Measurem	ent of Time		
7. Wha	at is the SI unit of time ?		
8. The	re are 3 types of equipment commonly used to measure time.		
a	a. These are the		
	i. P		
	ii. C		
	iii. S		
b	o. Of these, which instrument is the most accurate?		
C	Define the term period of a pendulum.		
9. The	figure below shows a pendulum.		
	A C B		
a. 1	race the path it travels to complete one oscillation.		
b. I	f it takes 0.40 s to swing from A to B, what is its period?		

Scalars and Vectors

- Scalar quantities are physical quantities that have only ______
- 2. Vector quantities are physical quantities that have both _____ and

Distance and Displacement

- 3. What is distance?
- 4. What is **displacement**?
- 5. A car travels from town A to town B taking the path as shown in the figure below.



- a. What is the distance it covered? ____km
- b. What is its displacement? ____km

Chapter 2 Kinematics

Speed and Velocity

1.	What is speed ? State its SI unit .
2.	What is the formula used to find the average speed over a certain period of time?
	Average Speed =
3.	A train takes 2 hours to travel from Town A to town B. It takes another 1 hour to travel from Town B to Town C. The distance between Towns A and C is 180 km. What is its average speed in terms of km/h and m/s?
	Average speed =km/h
4.	m/s What is velocity ? State its SI unit .
5.	What is the formula used to find the average velocity over a certain period of time?
	Average velocity =

Acceleration

6.	What is acceleration?	
7.	What is the formula used to find the acceleration over a certain period of time?	
	Acceleration =	
	a =	
8.	What is the SI unit for acceleration?	
9.	A car accelerates from 20 m/s to 50 m/s in 10 s. What is its acceleration?	
	Acceleration =m/s ²	
Acce	eleration due to gravity or Acceleration of Free Fall, $oldsymbol{g}$	
1.	For objects close the Earth's surface, the acceleration due to gravity, or acceleration of Free Fall, is taken to be a constant value of	
2.	A flower pot falls from rest from a ledge. Calculate the speed of the flower pot after 2.0 s.	

Speed =____m/s

Chapter 3 Force and Pressure

Туре	s of Forces	
1.	A force can be thought of as a or a to the interaction between objects.	due
2.	The type of force between objects that are in contact is k force.	nown as contact
	Name 4 contact forces.	
	a	
	b	
	C	
	d	
3.	Another type of force that does not require objects to be as non-contact force	in contact is knowr
	Name 3 non-contact forces.	
	a	
	b	
	C	
Mass	s and Weight	
1.	Mass is the	
2.	in a body.	
	The SI unit of mass is the	
3.	Weight is theobject that has mass.	acting on an
4.	The SI unit of weight is the	_
Grav	itational Field Strength	
1.	A gravitational field is a region in which a mass experienc	es a
2.	Gravitational field strength <i>g</i> is the	
		at that point

Relationship between Mass and Weight

1.	What is the formula used to find weight?
	Weight =
	W =
2.	Since weight is a force, what is the SI unit for weight?
3.	What is your mass ?kg
4.	What is your weight on a. earth? (<i>g</i> on earth is 10 m/s²)
	Weight on earth = N b. moon, given that the gravitational field strength on moon is 1/6 that of earth?
	Weight on moon =N

Density

1. Density is defined as	
2. What is the formula for density ?	
Density =	
ρ =	
3. What is the SI unit of density? _	
is lowered into the water so that	of cm ³ of water originally. When a stone it is completely below the surface, the s of stone = 68 g. What is the density of
	Volume of stone =cm ³
	Density =g/cm ³
Density and Flotation	
5. If a substance has higher densit	y than water will it float or sink in water?
6. The densities of 2 types of meta	ıls are listed
below. Metal	Density (g/cm ³)
Gold	19.3
Brass	8.56
Which metal will float when placed	·

Pressure

1.	What is pressure exerted by an object?
2.	What is the formula for pressure?
	Pressure =
	P =
3.	The SI unit of pressure is or
4.	The weight of a boy is 550 N. The total area of his feet in contact with the ground is $0.12\ m^2$.
	Calculate the pressure exerted by the feet of the boy on the ground.
	Pressure =Pa