ame):		()	Sec:	Date:
Cha	apter '	1 1	Measuremen	ts		
hysi	ical Qu	ıantities	and SI Units			
1.	There	are alto	gether	pl	nysical qua	ntities.
2.	Physic	cal quan	tities are also kr	nown as _		quantities.
3.	In Sin	gapore a	and in many othe	er countrie	es, one set	of units is used to
	descri	ibe these	guantities. This	s set of ur	its is from	the French and is
			<u>'</u>			
4.						symbol of the SI unit for
			se quantities list			
Ва	se Qua		<u>'</u>		I Unit	Symbol for SI Unit
Length						
Mas						
Tim		rront				
	ctric cu ermody		mnerature			
Thermodynamic temperature Amount of substance						
		nt of Le i	ngth unit of length?			,
			struments comn			
		These a		,		3
			R			
			· · · · · · · · · · · · · · · · · · ·			
			C			_
						G
	υ.	O1 11103	o, windi ilistiuli	1011t 11 a 3 ti	io greatest	prodision:
	C.	Of thes	e, which instrum	ent has th	ne least pre	ecision?

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

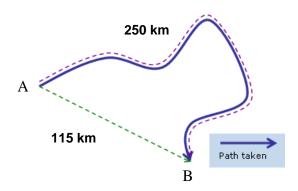
Scalars and Vectors

- 1. Scalar quantities are physical quantities that have only _____
- 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	leration 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 For	rces		
1.		e can be thought of as ainteraction between objects.	or a	due
2.	The tyl	pe of force between objects that are	e in contact is kno	wn as contact
	Name	4 contact forces.		
	a.			
	b.			
	C.			
	d.			
3.		er type of force that does not require e-contact force	e objects to be in o	contact is known
	Name	3 non-contact forces.		
	a.			
	b.			
	C.			
Mass	and W	oight		
	s and W	_		
1.	in a bo	s the dy.		
2.	The SI	unit of mass is the		
3.		t is thethat has mass.		_ acting on an
4.	The SI	unit of weight is the		
Grav	ritationa	I Field Strength		
1.	A gravit	ational field is a region in which a m	nass experiences	a
2	Gravita	tional field strongth a is the		
2	. Gravila	tional 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 def	ined as		
2. What is the fo	ormula for density ?		
1	Density =		
1) =		
3. What is the	SI unit of density?		
is lowered i	nto the water so that i	O cm ³ of water originally. When it is completely below the surfactor of stone = 68 g. What is the d	ce, the
		Volume of stone =	cm ³
		Density =	g/cm³
Density and Flo	otation		
5. If a substar	nce has higher density	than water will it float or sink i	n water?
6. The densiti	es of 2 types of metals	s are listed	
below. Met	<u>al</u>	Density (g/cm³)	
Go	ld	19.3	
Bra	ss	8.56	
	vill float when placed a	into a beaker of liquid mercury' n ³)	?

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