Instructions



 Repeat this activity daily until you achieve 100% in the target time on 2 consecutive days. Target time: Less than 5m.

Champion: 2m 40s.

- The goal is to answer the questions **quickly** and **correctly**.
 - o When you achieve fluency, it will require very little mental effort.
- Step 1: Set a stopwatch to time yourself.
- Step 2: Answer all questions on lined paper in timed conditions.
 - Guess if you don't know the answer.
- Step 2: **Check your answers** using the solutions on the reverse of this page.
- Step 3: Fill in one of the marking columns below (enter the date in the heading).
- Step 4: Use the solutions to **correct any mistakes**.

Q	Question Set 1 Da	ıte:			
	Time take	en:			
1.	O° 30° 45° 60° 90°				
2.	When $g = 9.8 ms^{-2}$, what is a suitable level of accuracy for your final answer:	?			
3.	Graph of $y = \sin x$, $0 \le x \le 360$ Label the x-axis every 90° .				
4.	Formulae for average velocity and average speed.				
5.	5 SUVAT equations				
6.	Graph of $y = \cos x$, $0 \le x \le 360$ Label the x-axis every 90° .				
7.	Sketch the graph of $y = (x - a)^2 + b$ where $a, b > 0$				
8.	Graph of $y = \tan x$, $0 \le x \le 360$ Label the x-axis every 90° .				



			Qı	Jestion	1		Solution									
										O°	30°	45°	60°	90°		
1.	sin	<i>0</i> °	30°	45°	60°	90°			sin		1/2	,		1		
	cos								cos	1	√3/ ₂	1/52	1/2	0		
2.	When of accu	_					2 significant figures (the same as g)									
3.	Graph Label t		0 90 180 270 360													
4.	Formu velocit	ge spe	ed and	l avera	Av Velocity = $\frac{\text{total displacement}}{\text{time}}$ Av Speed = $\frac{\text{total distance travelled}}{\text{time taken}}$											
5.	5 SUV	ıations	;				$V = u + at$ $V^{2} = u^{2} + 2as$ $S = \frac{1}{2}(u + V)t$ $S = ut + \frac{1}{2}at^{2}$ $S = Vt - \frac{1}{2}at^{2}$									
6.	Graph of $y = \cos x$, $0 \le x \le 360$ Label the x-axis every 90°.								0 90 180 270 360							
7.	Sketch the graph of $y = (x - a)^2 + b$ where $a, b > 0$								b							
8.	Graph of $y = \tan x$, $0 \le x \le 360$ Label the x-axis every 90°.								-90 0 90 180 270 360							