

ALPH 10 (A-LEVEL PHYSICS)

UNIT 1 : PHYSICS ON THE GO

#	WEEK	TOPIC/CONCEPT	PRACTICAL	TESTS
1	11 th July 2012 to 13 th July 2012	TOPIC 1 : INTRODUCTION 1.1 Quantities and units Significant Figures Uncertainties	NIL	
2	16 th July 2012 to 20 th July 2012	1.2 A Guide to Practical Work: <ul style="list-style-type: none"> • Metre rule • Vernier caliper • Micrometer screw gauge • Graph analysis 	Measuring length with : 1.1 : Metre rule 1.2 : Vernier caliper 1.3 : Micrometer screw gauge	
3	23 rd July 2012 to 27 th July 2012	TOPIC 2 : MECHANICS 2.1 Rectilinear Motion Kinematics (1-D & 2-D) Graph representation	1.4 : Measuring time with stopwatch 1.5 : Introduction to digital multimeter and analogue ammeter	TOPIC TEST 1
4	30 th July 2012 to 3 rd August 2012	2.1 Rectilinear motion Free fall under gravity Projectile motion Scalar and vector product	2.1 : Motion due to steady force using LAT	
6th August 2012 - NUZUL QURAN				
5	7 th August 2012 to 10 th August 2012	2.2 Forces Free-body force diagram	2.2 : Motion due to steady force using trolley and ticker tape	
6	13 th August 2012 to 15 th August 2012	2.2 Forces Newton's Laws of Motion Moment of forces	2.3 : Free fall under gravity	

	16 th August 2012 to 26 th August 2012	HARI RAYA BREAK		
7	27 th August 2012 to 30 th August 2012	2.3 Work, energy, Power Gravitational field strength Kinetic and Potential energy	2.4 : Static equilibrium and Laws of moments	
31st August 2012 - NATIONAL DAY				
8	3 rd September 2012 to 7 th September 2012	2.3 Work, Energy and Power applications	2.5 : Ballistic Pendulum	
9	10 th September 2012 to 14 th September 2012	TOPIC 3 : MATERIALS 3.1 Fluids Density Viscosity, Pressure	3.1 : Measuring viscosity of various liquids	TOPIC TEST 2
17th September 2012 - MALAYSIA DAY				
10	18 th September 2012 to 21 st September 2012	3.1 Fluids Laminar and Turbulent flow Stokes' Law	3.2 : Hooke's Law experiment	
11	24 th September 2012 to 28 th September 2012	3.2 Solid Materials Elastic and Plastic deformation	3.3 : Measuring elasticity of natural rubber	
12	1 st October 2012 To 5 th October 2012	3.2 Solid Materials Properties of solid materials	3.4 : Investigating Properties of copper wire	
13	8 th October 2012 To 12 th October 2012	TOPIC TEST 3		
14	15 th October 2012 To 19 th October 2012	REVISION WEEK		
	22 nd October 2012 To 26 th October 2012	STUDY LEAVE		
15	29 th October 2012 To 9 th November 2012	END-OF-SEMESTER EXAMINATION		
	10 th November 2012 To 29 th December 2012	SEMESTER BREAK		

COURSE ASSESSMENTS:

- ✓ **Topic Test**
There will be three topic tests throughout the semester.
- ✓ **Assignments**
Students need to submit few assignments based on the content of the course.
- ✓ **Examination**
The final exam is conducted at the end of the course. Grades of students for the semester are based on topics tests and final exam.

WEIGHTAGE:

- Topic test = 30%
- Final Exam = 70%

RECOMMENDED TEXT:

- Edexcel AS Physics by Pearson
- Salter Horners Advanced Physics for Edexcel AS Physics by Pearson

OTHER REFERENCES:

- Edexcel Physics for AS by Hodder Education; Graham George, Mike Benn
- Pacific Physics A-Level Volume 1; Poh Liong Yong

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