



COMMONWEALTH SECONDARY SCHOOL  
SCIENCE DEPARTMENT  
SECONDARY 2 NORMAL ACADEMIC  
SCIENCE (PHYSICS)  
COURSE OUTLINE 2017

Term/Week	Topic	Textbook	Workbook/Worksheet	Practical
T3W1	Effects of Heat and its Transmission	Volume B	Heat Worksheet 1: Expansion and Contraction	Heat Practical
T3W2 (3/7 Youth Day holiday)	Effects of Heat and its Transmission	Volume B	Heat Worksheet 2: Transmission of Heat	
T3W3	Effects of Heat and its Transmission	Volume B		
T3W4 (21/7 Racial Harmony Day)	Electrical System	Volume B	Electricity Worksheet 1: Circuit Diagrams and Types of Circuits	Phet Simulation Practical 1 and 2
T3W5	Electrical System	Volume B	Electricity Worksheet 2: Current	
T3W6 (4/8 Games Day)	Electrical System	Volume B	Electricity Worksheet 3: Potential Difference and Resistance Electricity Consolidated Worksheet 1 Electricity Worksheet 4: Effect of Electricity	Electricity Hands-on Practical
T3W7	Ray Model of Light	Volume A	Light Worksheet 1: Reflection of Light	Light Practical
T3W8	Ray Model of Light	Volume A	Light Worksheet 2: Refraction of Light and Colours Light Consolidated Worksheet	
T3W9 (23/8 E-learning Day)	Sound	Volume B	Sound Worksheet 1: How is Sound Produced and How do we hear sound	Sound Practical
T3W10 (30/8- 1/9, Teacher's Day Celebration, holiday and)	Sound	Volume B	Sound Worksheet 2: Echolocation, Pitch and Loudness Sound Consolidated Worksheet	
T4W1	Revision			
T4W2	Revision			
T4W3 - 4	EOY Exam			
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**References:**

- 1) Lower Secondary Science Matters Volume A Textbook
- 2) Lower Secondary Science Matters Volume B Textbook

**Assessment Overview:**

CA2	SA2
20%	45%
Refer to table below	Refer to table below

**CA2 Assessment**

S/N	Assessment Component	Date	Topics Tested	Weighting	Format
1	Class Tests	T3W5, T3W7-8, T4W1	To be announced by teachers beforehand	10%	20 - 30 min, mixture of MCQ and / or structured questions
2	Chemistry - AA1	-	Chemistry AA was conducted earlier and will be recorded in CA2	5%	-
3	AA2	T3W4	Will be announced by teachers beforehand	5%	Practical Task

**SA2 Assessment**

S/N	Assessment	Date	Topics Tested	Weighting	Format
1	End-of-Year Exam	T4W3	Chemistry and Physics Topics [Chem 30% ; Physics 70%]	45%	Duration: 2 hr Total marks: 100 Section A [30m] - MCQs Section B [40m] - structured questions Section C [30m] - free response questions