



THE PIQUE LAB LEARNING CENTRE

Secondary School Science Programme



S3 CHEMISTRY WA3 CRASH COURSE

Answer Booklet

Name: _____

Class: _____

TOPICS COVERED

Topic	Title	Page
1	Stoichiometry, Moles & Acids, Bases & Salts -----	1

S3 CHEMISTRY WA3 CRASH COURSE

TOPIC: STOICHIOMETRY, MOLES & ACIDS, BASES & SALTS

Qn	Answer
Q1	1
Q2	2
Q3	3
Q4	3
Q5	2
Q6	4
Q7	1
Q8	3
Q9	3
Q10	4
Q11ai	E
ii	B
iii	C
b	NaOH (or any soluble hydroxide)
c	Test: Place a lighted splint at the mouth of the test tube. Result: If H ₂ is present, the lighted splint is extinguished with a 'pop'.
Q12a	$\text{MgCO}_3 (\text{s}) + \text{HCl} (\text{aq}) \rightarrow \text{MgCl}_2 (\text{aq}) + \text{CO}_2 (\text{g}) + \text{H}_2\text{O} (\text{l})$
b	70%
c	MgCO ₃ used was not pure
d	5 g
e	An insoluble layer of PbSO ₄ (s) formed on the PbCO ₃ (s) prevented further reaction from taking place. Hence, less gas was produced.