Sai Kung Sung Tsun Catholic School (Secondary Section) F.6 Chemistry TEACHING SYLLABUS

Торіс	Experiment/ Activity
1. Rate of Reaction	1. Investigating the effect of varying the
1.1 The rate of a reaction	concentration of vinegar solution on the rate of
1.2 Methods for following the progress of a	its reaction with baking soda.
reaction	2. Investigating the effect of varying the surface
1.3 Factors affecting the rate of a reaction	area of marble chips on the rate of their
1.4 Studying different factors affect the rate	reaction with dilute hydrochloric acid
1.5 Reaction rate and effective collisions	3. Investigating the effect of varying the
1 6 Applications of catalysts	temperature on the rate of acid hydrolysis of
1 7 Fnzymes	ethyl ethanoate
2 Gas volume calculations	1 Determining the molar volume of carbon
2.1 The relationship between gas volume and	dioxide
moles	uloxide
2.2 Molar volume of a gas	
2.2 Motar volume of a gas	
2.5 Calculations from chemical equations	
2.4 Gas volume calculations from chemical	
Chamical Equilibrium	1 Investigating the effects of concentration
3. Chemical Equilibrium 2.1 Improvible and my angible magnitude	abanges on two shamical activities and the
3.1 Inteversible and reversible reactions	changes on two chemical equilibrium systems
3.2 The equilibrium constant	2. Determining the equilibrium constant for an
3.3 The equilibrium law	esterification reaction
3.4 Equilibrium systems involving components	3. Investigating the equilibrium system of a
in more than one state	reaction to study the shift of equilibrium
3.5 Position of equilibrium	positions upon temperature changes
3.6 Effect of changing conditions on systems in	
equilibrium	
4. Patterns in the Chemical World	1. Illustrating the oxidation state of vanadium
4.1 Periodic trends in elements and their	
compounds	
4.2 The transition metals	
5. Industrial Chemistry	1. Determining the rate equation for the reaction
5.1 What is chemical industry	between acidified propanone solution and
5.2 The effect of change in concentration on the	iodine by colorimetry
rate of a reaction	2. Determining the activation energy for a
5.3 Order of reaction	reaction
5.4Experimental determination of the rate	
equaiton	
6. Analytical Chemistry	1. Identifying four unlabeled white solid samples
6.1 Qualitative analysis	2.Identifying the functional groups in two
6.2 Tests for functional groups, separation and	unknown compounds
purification of compounds	3. Determining the calcium content in a sample
6.3 Quantitative methods of analysis	solution
6.4 Instrumental analytical methods	
6.5 Contribution of analytical chemistry to our	
society	
Revision	
Mock examination	

F.6 CHEMISTRY ASSESSMENT SYSTEM :

Term Result (100%) = Mock exam (50%) + Course work(50%)

Course work (100%) = Term Tests/Quizzes(50%) + homework(40%) + learning attitude (10%) Annual Result (100%) = Term Result (100%)