Akashi College				Year 2022				ourse Title	Science II B			
Course	Informa	tion										
Course Code 4205						Course Catego	ry	General / Compulsory				
Class Format Lecture						Credits		School C	School Credit: 2			
Department Architectu			rure		Student Grade		2nd					
Term Year-roun			nd		Classes per We	eek	ek 2					
	book and/or hing Materials											
Instructor	<u> </u>	SAKURA	I Yasu	hiro								
Course	Course Objectives											
particles) 2. Can us reactants 3. Can ex 4. Can ex	: e chemica and produplain and o	l equations acts in a rea calculate th	, and e action. e basi	explain and c matters re	calculate the ba	sic matters relate	d to the	e relations	matters related to the bonding of hip between the amounts of			
Rubric												
				al Level	Standard Level			Unacceptable Level				
Achievement 1			rela sub rela	related to the composition of composition of			nd calculate the related to the f substances tters related to the rticles).		Cannot explain and calculate the basic matters related to the composition of substances e (including matters related to the bonding of particles).			
Achievement 2			and and rela bet rea	n use cheming the second in th	and explain an basic matters relationship be amounts of rea	Can use chemical equations, and explain and calculate the basic matters related to the relationship between the amounts of reactants and products in a reaction.		Cannot use chemical equations, and explain and calculate the basic matters related to the relationship between the amounts of reactants and products in a reaction.				
Achievement 3			and	n fully and a d calculate t ated to acid		Can explain and calculate the basic matters related to acids and bases.		Cannot explain and calculate the basic matters related to acids and bases.				
Achievement 4			and rela	n fully and a d calculate to ated to oxid uction reac	basic matters r	Can explain and calculate the basic matters related to oxidation and reduction reactions.		Cannot explain and calculate the basic matters related to oxidation and reduction reactions.				
Assigne	d Depar	tment Ob	ojecti	ves								
Teachin	g Metho	d										
Outline		understa	anding	the basic t	heories of chemi	stry.	f chemi	icals, and	d to develop scientific thinking by			
Style		Classes	are tau	re taught in a lecture-style format.								
Notice		around u	us. n: Oga:	sawara		lives scientifically will not be eligible			ecognize that chemistry is all rade.			
Charact	eristics o	of Class /	Divis	sion in Le	arning							
☑ Active Learning			☑ Aided by ICT			☑ Applicable t	☐ Applicable to Remote Class		☐ Instructor Professionally Experienced			
Course	Plan											
		Theme			Goals							
1st Semeste r		1st										
	1st Quarter	2nd	Composition of substances - 1			Stry	Can explain and calculate the basic matters related to the composition of substances.					
		3rd	Comp	Composition of substances - 2			Can explain and calculate the basic matters related to the composition of substances.					
		4th	Comp	omposition of substances - 3			Can explain and calculate the basic matters related to the composition of substances.					
		5th	Composition of substances - 4				Can explain and calculate the basic matters related to the composition of substances.					
		6th	Bonding of particles - 1				Can explain and calculate the basic matters related to the bonding of particles.					
		7th	Bonding of particles - 2				Can explain and calculate the basic matters related to the bonding of particles.					
		8th	Midterm exam									
	2nd Quarter	9th	Summary of the composition of sul			ubstances	Can explain and calculate the basic matters related to the composition of substances and bonding of particles.					
		10th	Chemical equations and relationship between amounts of reactants and products in a react 1				Can explain and calculate the basic matters related to the relationship between the amounts of reactants and products in a reaction.					

Chemical equations and relationship between the amounts of reactants and products in a reaction - 2 content of the relationship between the amounts of reactants and products in a reaction - 2 content of reactants and products in a reaction of the reactants and products in a reaction of									
Part Amounts of reactants and products in a reaction of reactants and products in a reaction. 16th Final exam			11th	Chemical equations and relationship amounts of reactants and products 2	between the in a reaction -	related to the rela	ationship between the amounts		
Summary of chemical equations and relationship between the amounts of reactants and products in a reaction. Chemical equations and relationship between the amounts of reactants and products in a reaction.			12th	Chemical equations and relationship amounts of reactants and products 3	between the in a reaction -	related to the relationship between the amou			
14th amounts of reactants and products in a reaction 15th Chemical equations and relationship between the amounts of reactants and products in a reaction 16th 15th Chemical equations and relationship between the amounts of reactants and products in a reaction 16th 15th Summary of chemical equations and relationship between the amounts of reactants and products in a reaction 15th 15th Summary of chemical equations and relationship between the amounts of reactants and products in a reaction 15th			13th a	amounts of reactants and products	between the in a reaction -	related to the rela	ationship between the amounts		
15th amounts of reactants and products in a reaction - 6 16th Final exam 15th Final exam 15th Summary of chemical equations and relationship between the amounts of reactants and products in a reaction. 15th			14th (Chemical equations and relationship amounts of reactants and products 5	between the in a reaction -	related to the relationship between the amounts			
Summary of chemical equations and relationship between the amounts of reactants and products in a reaction			15th a	amounts of reactants and products		related to the relationship between the amounts			
Second S			16th	Final exam					
Reactions of acids and bases - 1 Reactions of acids and bases - 2 Ard Reactions of acids and bases - 2 Ath Reactions of acids and bases - 3 Can explain and calculate the basic matters related to reactions of acids and bases. Sth Reactions of acids and bases - 4 Can explain and calculate the basic matters related to reactions of acids and bases. Can explain and calculate the basic matters related to reactions of acids and bases. Can explain and calculate the basic matters related to reactions of acids and bases. The Reactions of acids and bases - 5 Can explain and calculate the basic matters related to reactions of acids and bases. The Reactions of acids and bases - 6 Reactions of acids and bases - 6 Reactions of acids and bases - 6 Ath Midterm exam Can explain and calculate the basic matters related to reactions of acids and bases. The Summary of reactions of acids and bases Can explain and calculate the basic matters related to reactions of acids and bases. 10th Oxidation and reduction reactions - 1 Can explain and calculate the basic matters related to reactions of acids and bases. 10th Oxidation and reduction reactions - 2 Can explain and calculate the basic matters related to oxidation and reduction reactions. 11th Oxidation and reduction reactions - 3 Can explain and calculate the basic matters related to oxidation and reduction reactions. 12th Oxidation and reduction reactions - 3 Can explain and calculate the basic matters related to oxidation and reduction reactions. 12th Oxidation and reduction reactions - 4 Can explain and calculate the basic matters related to oxidation and reduction reactions. 12th Oxidation and reduction reactions - 5 Can explain and calculate the basic matters related to oxidation and reduction reactions. 12th Oxidation and reduction reactions - 5 Can explain and calculate the basic matters related to oxidation and reduction reactions. 12th Oxidation and reduction reactions - 6 Can explain and calculate the basic matters related to oxidation and re			1st l	petween the amounts of reactants		related to the relationship between the amounts			
Straight Angular			2nd F	Reactions of acids and bases - 1		Can explain and calculate the basic matters related to reactions of acids and bases.			
State Can explain and calculate the basic matters related to reactions of acids and bases.			3rd F	Reactions of acids and bases - 2					
Sth Reactions of acids and bases - 4 Reactions of acids and bases - 5 Can explain and calculate the basic matters related to reactions of acids and bases. 7th Reactions of acids and bases - 6 Reactions of acids and bases. 8th Midterm exam Can explain and calculate the basic matters related to reactions of acids and bases. 9th Summary of reactions of acids and bases Can explain and calculate the basic matters related to reactions of acids and bases. 10th Oxidation and reduction reactions - 1 Can explain and calculate the basic matters related to oxidation and reduction reactions. 11th Oxidation and reduction reactions - 2 Can explain and calculate the basic matters related to oxidation and reduction reactions. 12th Oxidation and reduction reactions - 3 Can explain and calculate the basic matters related to oxidation and reduction reactions. 13th Oxidation and reduction reactions - 4 Can explain and calculate the basic matters related to oxidation and reduction reactions. 14th Oxidation and reduction reactions - 5 Can explain and calculate the basic matters related to oxidation and reduction reactions. 15th Oxidation and reduction reactions - 6 Can explain and calculate the basic matters related to oxidation and reduction reactions. 15th Oxidation and reduction reactions - 6 Can explain and calculate the basic matters related to oxidation and reduction reactions. 16th Final exam Evaluation Method and Weight (%) Examination Report Little test · Task Total Subtotal 60			4th	Reactions of acids and bases - 3		Can explain and calculate the basic matters related to reactions of acids and bases.			
Path Summary of reactions of acids and bases - 5 The Reactions of acids and bases - 6 Replain and calculate the basic matters related to oxidation and reduction reactions. Replain and calculate the basic matters related to oxidation and reduction reactions. Replain and calculate the basic matters related to oxidation and reduction reactions. Replain and calculate the basic matters related to oxidation and reduction reactions. Can explain and calculate the basic matters related to oxidation and reduction reactions. Replain and calculate the basic matters related to oxidation and reduction reactions. Replain and calculate the basic matters related to oxidation and reduction reactions. Replain and calculate the basic matters related to oxidation and reduction reactions. Replain and calculate the basic matters related to oxidation and reduction reactions. Replain and calculate the basic matters related to oxidation and reduction reactions. Replain and calculate the basic matters related to oxidation and reduction reactions. Replain and			5th	Reactions of acids and bases - 4		Can explain and calculate the basic matters related to reactions of acids and bases.			
Path Summary of reactions of acids and bases Can explain and calculate the basic matters related to reactions of acids and bases.			6th	Reactions of acids and bases - 5					
Semeste Sth			7th	Reactions of acids and bases - 6		Can explain and calculate the basic matters related to reactions of acids and bases.			
Put Summary of reactions of acids and bases related to reactions of acids and bases. 10th Oxidation and reduction reactions - 1 Can explain and calculate the basic matters related to oxidation and reduction reactions.			8th	Midterm exam		Can explain and calculate the basic matters related to reactions of acids and bases.			
1th Oxidation and reduction reactions - 2 Can explain and calculate the basic matters related to oxidation and reduction reactions.		-	9th	Summary of reactions of acids and	bases				
12th Oxidation and reduction reactions - 2 related to oxidation and reduction reactions.			10th (Oxidation and reduction reactions -	1	related to oxidation and reduction reactions.			
4th Quarter			11th (Oxidation and reduction reactions -	2	related to oxidation and reduction reactions.			
13th Oxidation and reduction reactions - 4 Can explain and calculate the basic matters related to oxidation and reduction reactions. 14th Oxidation and reduction reactions - 5 Can explain and calculate the basic matters related to oxidation and reduction reactions. 15th Oxidation and reduction reactions - 6 Can explain and calculate the basic matters related to oxidation and reduction reactions. 16th Final exam Evaluation Method and Weight (%)			12th (Oxidation and reduction reactions -	3				
15th Oxidation and reduction reactions - 5 related to oxidation and reduction reactions. 15th Oxidation and reduction reactions - 6 Can explain and calculate the basic matters related to oxidation and reduction reactions. 16th Final exam			13th (Oxidation and reduction reactions -	4	Can explain and calculate the basic matters related to oxidation and reduction reactions.			
Evaluation Method and Weight (%) Examination Examination Examination Examination Report · Little test · Task Subtotal Basic Proficiency 60 40 100 Specialized Proficiency 0 0			14th (Oxidation and reduction reactions -	5	Can explain and c related to oxidation	calculate the basic matters on and reduction reactions.		
Evaluation Method and Weight (%) Examination Report · Little test · Task Total Subtotal 60 40 100 Basic Proficiency 60 40 100 Specialized Proficiency 0 0 0				Oxidation and reduction reactions -	6	Can explain and c related to oxidation	calculate the basic matters on and reduction reactions.		
Examination Report · Little test · Task Total Subtotal 60 40 100 Basic Proficiency 60 40 100 Specialized Proficiency 0 0 0									
Subtotal 60 40 100 Basic Proficiency 60 40 100 Specialized Proficiency 0 0 0									
Basic Proficiency 60 40 100 Specialized Proficiency 0 0 0					<u>'</u>				
Specialized Proficiency 0 0 0									
Cross Area Proficiency 0 0 0	- '				+				
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