Grade Level / Course 学年 / コースS1 ICASubject / Class 教科 / 科目Math IClass hours 時間数4 hours / 中間数1学期 中間試験 Term 1 MidterName of Unit, Project 単元名Ch 4: Quadratic FunctionsTextbooks / Materials 使用教科書 / 教材Algebra 2 (Glencoe 2014 Common Core)IName of Unit, Project 単元名Students will learn how to graph and analyze the graphs of quadratic Students will learn how to perform operations with complex numbers and how to graph in the complex plane.Students will learn how to solve and graph quadratic inequalities.Unit Standards 本単元の内容と評価規準Unit Standards 本単元の内容と評価規準Others 備考	MITA International School Syllabus 2019 三田国際学園中学校・高等学校 2019年度 シラバス													
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	Unit Standards 本些	単元の内容と評	価規準				Others 4	Others 備考						
* A3 B3 C3 Solve application problems using quadratics. B3 Use quadratics to model a situation. C3	*A3 Solve applicatio using quadratic	n problems s.	B3 Use quadratics to model a situation.	СЗ			<評価方	法>						
* A2 Solve quadratic equations. B2 Graph quadratic equations by hand. C2 C3 C3 C3 C3 C3 C3 C3 C3 C3 C3 C3 C3 C3	がA2 Solve quadratic equations.		B2 Graph quadratic equations by hand.	C2			<ict c<br="" •="">Students Classroor througho</ict>	- <ict creation="" ·=""> Students will be introduced to Khan Academy and Goc Classroom. They will complete assignments on these platfor throughout the year.</ict>						
* A1 B1 C1 Understand and use key Understand the relationship between a quadratic equation and a parabola.	★ A1 Understand and use key vocabulary.		B1 Understand the relationship between a quadratic equation and a parabola.	C1			č							

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Grade Level / Course 学年 / コース	e Level / Course S1 ICA		Subject Area / Class 教科 / 科目		Math I		lath I	Class hours 時間数	4 hours per week			
			1学期	Term 1	Final							
Name of Unit, Project 単元名 Ch 5: Polynomial Functions; Ch 6: Inverses and Radicals				Textbooks / Materials 使用教科書 / 教材			Algebra 2 (Glencoe 2014 Common Core)					
Unit Description 単元の概要 Students will learn how to do operations with polynomials. They will learn dimensional analysis. Students will learn how to do operations on functions. They will learn how to find function inverses. Students will learn how to use rational exponents and solve equations with radicals.												
Unit Standards 本 ⁱ	単元の内容と評	価規準				Others	Others 備考					
* A3 Solve applicatio using polynomia radical function	n problems als and/or s.	B3 Use radical functions to model a situation.	СЗ			<評価方	法>					
が A2 Perform operations on functions.		B2 Graph radical functions.	C2			<ict 0<br="" •="">Students</ict>	<ict creation="" ·=""> Students will use Desmos to analyze graphs of variou</ict>					
^を A1 Understand and use key vocabulary.		B1 Understand the connection between inverses and their graphs.	C1 Solve problems using dimensional analysis.									
Simplify polyno Recogr		Creative Thi	nking	-								

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Grade Level / Course 学年 / コース	de Level / Course 学年 / コース S1 ICA			Subject Area / Class 教科 / 科目			ath I	Class hours 時間数	4 hours per week		
2学期 中間試験 Term 2 Midterm											
Name of Unit, Projec 単元名	anctions Textbooks / Materials 在 使用教科書 / 教材			lgebra 2 (Glencoe 2014 Common Core)							
Unit Description 単元の概要Students will learn how to graph exponential and logarithmic functions.Students will learn how to solve exponential and logarithmic equations.Students will learn how to solve application problems involving compound interest and population growth.											
Unit Standards 최	単元の内容と評	面規準				Others 備考					
* A3 Solve application problems involving exponentials.		B3 Use exponential functions to model a situation.	С3			<評価方法	\$>				
がA2 Solve exponential equations		B2 Graph exponential functions.	C2 Solve growth problem			<ict creation="" ·=""> Students will use Desmos to population growth problems.</ict>		solve com	pound interest and		
Understand an vocabulary.	nd use key	D Understand the relationship between exponential and logarithmic graphs.	Use exj find coi	ponential functio mpound interest.	ons to	Group Pro	Group Project: Exponential Growth and Zombies.				
Recog	gnition	Logical Thinking	(Creative Thinking		1					

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Grade Level / Course 学年 / コース	S1 ICA	Subject / 教科	Area / Class ↓ / 科目		Ma	ath I	Class hours 時間数	4 hours per week		
2学期 期末試験 Term 2 Final										
Name of Unit, Project 単元名	Textbooks / Materials 使用教科書 / 教材				ebra 2 (Glencoe 2014 Common Core)					
Unit Description 単元の概要Students will learn how to do operations with rational expressions.Students will learn how to graph rational expressions and analyze features of the graph.Students will learn how to solve application problems such as finding a weighted average.										
Unit Standards 本語	Unit Standards 本単元の内容と評価規準						請考			
★ A3 Find a weighted average. Solve application problems.		B3 Model a situation using rational functions.	СЗ		<評価方法	去>				
好 A2 Solve rational equations.		B2 Graph rational functions.	C2 Recognize and solve inverse and combined variation problems.		Generation of the second secon	reation> will use Khan Aca and graphing in this u	demy and init.	Desmos for various		
知 A1		B1	C1							
Understand and use key vocabulary.		Connect graphs of rational functions with their equation.	Recognize and solve direct and joint variation problems.							
Recogr	nition	Logical Thinking	(Creative Thin	king					

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Grade Level / Course 学年 / コース S1 ICA			S1 ICA	Subject Area / Cla 教科 / 科目			Math I		Class hours 時間数	4 hours p	oer week	
3学期 期末試験 Term 3 Final												
Name of Unit, Project 単元名 Ch 12: Trigonometric Functions					Textbooks / Materials 使用教科書 / 教材 Algebra 2 (Glencoe 2014 Common Core)					on Core)		
	Unit Description 単元の概要Students will learn the definition of the trigonometric functions and use them to find side lengths and angle measures. Students will draw angles in standard position. They will learn how to convert between radian and degree measure. Students will use trigonometric functions to solve real-world problems such as calculating an unknown distance.											
U	Init Standards 本 ^国	単元の内容と評価	面規準	Oth	Others 備考							
楽	A3 Solve real-world using trig functi	l problems ions.	B3 Model using trigonometric functions.	С3			<評	価方法>				
好	本A2 Find values of trigonometric functions.		B2 Graph trig functions.	C2 Choose methods to solv triangles.		lve <ic Stud</ic 	ZT・Creation> lents will use	Khan	Academy and	d Desmos	to study	
知	A1 Understand and vocabulary.	l use key	B1 Use trigonometry to solve triangles.	C1 Describe and graph trigonometric function		raph oth ctions.	trigo ner	onometric functio	ons.	ŭ		J
	Convert between and degrees. Recogn	n radians iition	Logical Thinking		Creative Thi	nking	_					