

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

Grade Level / Course 学年 / コース	J2 Advanced Science	Subject Area / Class 教科 / 科目	Earth & Space Science	Class hours 時間数	5 時間 / 週
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1学期 中間試験 Term 1 Midterm

Name of Unit, Project 単元名	Exploring Earth	Textbooks / Materials 使用教科書 / 教材	Glencoe Earth & Space iScience
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Unit Description 単元の概要	Earth's structure and how it is recorded, how it was formed, and the composition and processes which form it.
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Unit Standards 本単元の内容と評価規準			Others 備考
素	A3 Explain in own words, what is the chemical composition of rocks and minerals. Describe detailed information on maps, and their essential necessity on modern society.	B3 Assess physical properties to identify minerals.	<ICT・Creation> Utilize iPads, related technology and laboratory equipment in tandem with one another in relation with concepts from class. Various models will be created to communicate concepts. Experiments will be created to explore concepts.
好	A2	B2 Understand the structural qualities of rocks and deduce their practical applications.	
知	A1	B1 Build models and diagrams on the rock cycle.	
	Recognition	Logical Thinking	Creative Thinking

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1学期 期末試験 Term 1 Final					
Name of Unit, Project 単元名	Exploring Earth (continued)	Textbooks / Materials 使用教科書 / 教材			
Unit Description 単元の概要	Earth's structure and how it is recorded, how it was formed, and the composition and processes which form it.				
Unit Standards 本単元の内容と評価規準				Others 備考	
察	A3	B3	C3 Create models to accurately represent weathering processes and rock cycle.	<ICT・Creation> Utilize iPads, related technology and laboratory equipment in tandem with one another in relation with concepts from class. Various models will be created to communicate concepts. Experiments will be created to explore concepts.	
好	A2 Identify the process of the rock cycle. Determine the difference between rocks and minerals.	B2	C2		
知	A1	B1	C1		
	Recognition	Logical Thinking	Creative Thinking		

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2学期 中間試験 Term 2 Midterm

Name of Unit, Project 単元名	Geologic Changes	Textbooks / Materials 使用教科書 / 教材	Earth & Space iScience
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Unit Description 単元の概要	Continental drift and plate tectonics, forces that shape Earth and phenomena which occur. Fossils, relative and absolute dating.
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Unit Standards 本単元の内容と評価規準			Others 備考
察	A3	B3 Use rock formations to determine the relative dates of processes.	<ICT・Creation> Utilize iPads, related technology and laboratory equipment in tandem with one another in relation with concepts from class. Various models will be created to communicate concepts. Experiments will be created to explore concepts.
好	A2	B2 Communicate which processes are responsible for shaping continents.	
知	A1 Recall the geologic time scale and realize how life has changed over time.	B1 Design landforms in 3D models.	
	Recognition	Logical Thinking	Creative Thinking

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2学期 期末試験 Term 2 Final					
Name of Unit, Project 单元名	Weather and Climate	Textbooks / Materials 使用教科書 / 教材	Earth & Space iScience		
Unit Description 単元の概要	Energy in the atmosphere, wind tendencies, weather and climates.				
Unit Standards 本単元の内容と評価規準				Others 備考	
察	A3	B3	C3 Use patterns found in weather and climate cycles to extrapolate and forecast weather.	<ICT・Creation> Utilize iPads, related technology and laboratory equipment in tandem with one another in relation with concepts from class. Various models will be created to communicate concepts. Experiments will be created to explore concepts.	
好	A2 Recognize patterns in weather and climate cycles.	B2	C2		
知	A1	B1 Consider possible ways to combat greenhouse gases.	C1		
	Recognition	Logical Thinking	Creative Thinking		

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3学期 期末試験 Term 3 Final					
Name of Unit, Project 単元名	Water, Exploring the Universe	Textbooks / Materials 使用教科書 / 教材	Earth & Space iScience		
Unit Description 単元の概要	Water, its properties, tendencies, and variation. Water as a resource. Exploring space, observing the universe, and the sun-earth-moon system. Solar system. Stars and galaxies.				
Unit Standards 本単元の内容と評価規準				Others 備考	
察	A3 Recognize the uniqueness of water as a compound.	B3 Utilize graphed data to understand the stars.	C3		<ICT・Creation> Utilize iPads, related technology and laboratory equipment in tandem with one another in relation with concepts from class. Various models will be created to communicate concepts. Experiments will be created to explore concepts.
好	A2	B2	C2 Design and construct a Moon Habitat.		
知	A1	B1	C1 Create a model of moon phases.		
	Recognition	Logical Thinking	Creative Thinking		