	ary Core as (DCI's)	Elle Science (LS)											Earth & Space Science (ESS)									Filysical science (FS)							Engineering, Technology and the Application of Science (ETS)								
MSI Programs to support your science teaching K-1st Grade 2nd - 3rd Grade 4th - 5th Grade 6th - 8th Grade			LS1.A	LS1.B	LS1.C	LS1.D	LS2.A	LS2.B	LS2.C LS	2.D L	33.A LS	S3.B	LS4.A	LS4.B	LS4.C	LS4.D	ESS1.A	ESS1.C	ESS2.A	ESS2.C	ESS2.D	ESS2.E	ESS3.A	ESS3.B	ESS3.C	ESS3.D	PS1.A	PS2.A	PS2.B	PS3.A	PS3.B	PS3.D	PS4.A	ETS1.A	ETS1.B	TS1.C	
		Grade Grade	Structure and Fuction	Growth and development of organisms	Organization for matter & flow in organisms	Information Processing	Interdepent relationships in ecosystems	Cycles of matter and energ transfer ecosystems	group behavior Ecosystem dynamics, functioning, and resilience	Social interactions and		rs	Evidence of common ancestry and diversity	Natural selection	Adaptation	Biodiversity and humans	The universe and its stars	The history of planet Earth	Earth materials and system	The roles of water in Earth surface processes	Weather and climate	Biogeography	Natural resources	Natural Hazards	Human impacts on Earth systems	Global climate change	Structure and properties or matter	Forces and motion	Types of interactions	Definitions of energy	Conservation of energy & energy transfer	Energy in chemical processes & everyday life	Wave properties	Defining and delimiting engineering problems	Developing possible solutions	Optimizing the design solution	
Programs Shoreside			1 4	1 3 6	K, 5, 7	1 4 6	5, 7	5	7	3	3	1	23	3	3.8	2, 3, 7			S	2,6	K	К	K		K, 5, 6		5	К			К	5, 7		K, 1, 2			
Shoreside (Pre-K & up)	Human Impact			<u> 1</u> , 4	1, 3, 0	N, J, 1	1, 4, 0	5, 7	3	7	3	3	+	23	3	3	3, 7				6	K	K	N		K, 5, 6		3	IX			IN.	3, 1		N, L, Z		
	Food Web Biodiversity & Endangered Species Adaptations			4		K, 5		5, 7	5	7		3		2	3	3	3, 7				-		- IX			11, 3, 0							5				
			Species		3, 6			5, 7		7					3	3, 8	2, 3, 7						К			K, 5, 6											
				1, 4			1, 4	5			3	3			3	3, 8	3									5									1		
		Discovery Voyage			6	5, 7	4, 6	5, 7	5, 7	7						8				4, 7			4			5, 6, 8		5					5, 7				
Discovery Voyage	Human Impact							5		7										4	6, 7		4			5, 6, 8											
(4th & up)	Food Web			4		5		5, 7	5, 7											Phot													5				
	Biodiversity & Endangered Species		Species					5, 7		7							7			4						5, 8											
Adaptations			4	-		4	5								-	-							-		5	-	7	7.0		-	-				-		
Canoes in Sloughs (6th & up) Ocean Lab (4th & up)				4, 6	6	E	1	5, 7	5, 7	7				0		0	-1		0		ь	ь				6, 8	b	-/	7,8	5	0	ь		4		ь	
Tidepool Expedition			4	3, 6	5	4	5, 7		3, 7	3	2	3	0	2	3	3, 7		0			- 0				5, 6, 8	6		-	5				4				
Tidepool Expedition (3rd & up)	8	Human Impact		*	3,0	3	-	5, 1	3	3, 1	3	3	3		2	3	3, 7									5, 8	U			3				-			
	Food Web		*	4		5		5, 7	5			3					3,7									3,0											
	The T	Adaptation		4	3		4	5		3	3	3	3		3	3	3																				
NA		Marsh & Beach Exploration	n	4	3, 6	5	4	5, 7	5, 7	7	3	3	3		3	3	3, 7				6				3	5, 6, 8				5							
Marsh & Beach Exploration (3rd & up)	S	Human Impact						5				100				3	3								3	5, 8											
	lem	Food Web		4		5		5	5, 7	7	3	3	3		3	3																					
	1	Adaptation		4			4	5, 7	5		3	3	3		3	3																					
Biomimicry Combo with Discovery Voyage (5th & up)							7				_				8										8									5,6,7,8		5,6,7,8	
Wonders of Water	Wonders of Watersheds (6th & up)				6			7	7	7							7				6	6				6, 8	6	7	8		6	6				6	
Scientific Method	Discovery Voyage									7			-	-			-		-			-								-	-	-					
Combo (4th & up)) iž ta	Tidepool Expedition Marsh & Beach Exploration		4			1	5, 7 5, 7		7		-	-	-			7									5, 8 5, 6, 8				5						6	
Classroom Biomi	micry	nicry (3rd & up)		-			7	7								8										5, 8				3		1			5,6,7,8	1000	678
Ocean Lab (4th & up)			4, 6	6	5	4	5, 7	5, 7	7				8		8			8							5				5				4	0,0,1,0	3,0,1,0	,,0,1,0	
Inland Voyage (Pre-K & up)		Fish		1, 4	1, 3, 6	K, 5	1, 4	5	5		3	3	1		3	3	2, 3				2			K		K, 5									K, 1, 2		
	suo	Rocky Shore		1, 4	1, 3, 6		1, 4	5	5		3	3	1		3	3	2, 3	1	2		2	K	K	К		K, 5				5		K			K, 1, 2		
	Opti	Invertebrates		4	1, 3, 6	, 5	4	5, 7	5, 7	7	3	3			3	3, 8	2, 3, 7		2		2					5, 8				5					2		
	2 11	Kelp Forest		4	3	5	4	2, 5	5		3	3			3	3	2, 3		2		2					5							5	4	2	2	
	gra	Marine Mammals		1, 4	1, 3	K, 5	1, 4	5	//			3	1		3		2, 3							K		275.0									K, 1		
	Pro	Marsh and Mudflats		4	3	5	4	5	5		3	3			3	3	3								3	5				5					V 1 2		
	Sandy Beach			1, 4	1, 3		_	5	5		3	3	1		3	3	2, 3	1	2		2	K	K	K		K, 5				5					K, 1, 2		
Dealed City CA				_		Off-S			Programs at Your School							Marine Science Institute Education Programs											Book Your Program										
	- 1100			-	_				Inland Voyage							engage students in science, using the range of																					
Discovery VoyageShoresidePillarMar						on B	ay	Ocean Lab							Next Generation Science Standards (NGSS):												TODAY!										
• Canoes in Sloughs Exploi						dero	1	Classroom Biomimicry							 Disciplinary Core Ideas 											650•364•2760											
Ocean Lab State																	• Cross Cutting Concepts education								on	nesfbaymsi.org											
			ole Ex	mosi	Ire Pr	ngra	ms																														

Multiple Exposure Programs
*Combines in-class visits with off-site field surveys

• Biomimicry: Combines a classroom visit with a Discovery Voyage

• Scientific Method Combo: Combines two classroom visits and a field study

• Wonders of Watersheds: Includes a classroom visit, creek study, and canoes field study

• Science and Engineering Practices

Go to www.sfbaymsi.org to download NGSS-MSI connections by grade and school program

