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Topic/Objectives: 7-3 Relationships in the Ocean; (1) Describe examples of		Name:	
mutualism, parasitism and commensalism in the ocean; (2) Consider the costs and		Date:	
benefits of diverse reproductive strategies used by species.		Period:	
Essential Question: What type	of relationships do organisms in the ocean have w	vith each other?	
Questions:	Notes:		
	When different species live in close proxim	nity, relationships that aid in the	
	survival of a species can evolve.		
	• is when one or both species benefits from the close		
	relationship between species.		
	 Symbiotic relationships between differ 	 Symbiotic relationships between different species is called an 	
	relationship.	relationship.	
	 Symbiotic relationships between two of 	organisms of the same species is called	
	an relationship.		
Types of interspecific relationships include:		:	
	 – where both species benefit from the relationship. 		
	where one specie	 – where one species benefits while the other is not 	
	affected.		
	o – One organism ber	nefits by feeding off the host, harming	
	the host.		
	One organism hui	nts, kills and consumes the other	
	organism.		
	Relationships between organisms generall	y begin with or	
	° results due to the c	ontinual response and shift in the	
	populations over time.		
	 Species A evolves in response to Species 	es B, while will then	
	drive Species B to evolve in response t		
		·	
	Intraspecific relationships may be necessar	ry for organisms to avoid	
	, including the need to _	-	
		en an organism can reproduce without	
	a partner, producing offspring genetically identical to the parent.		
	 Little risk is taken by the organism 	·	
	 No genetic leaving the offspring vulnerable to change, natural or human-induced. 		
		s by the union of gametes (sperm and	
	reproduction occurs by the union of gametes (sperm and		
	egg) usually requiring two parents. Offspring are genetically		
	evolutionary change in response to	o environmental changes.	

	Some organisms reproduce both sexually and asexually.
	 One method of asexual reproduction, called, the parent
	divides itself in unequal parts.
	 organisms – that are unable to move – use specialized
	methods to acquire or release their gametes into the water.
	 Corals and sponges utilize to release large amounts of
	gametes into the water to ensure a high rate of fertilization.
	 The high fertilization rate ensures for the organism in
	spite of predation and environmental obstacles.
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	Derental care of offenring:
	Parental care of offspring: Parental care takes time and energy on the part of the parent
	r are trained takes time and energy on the part of the parent
	the number of offspring a species can produce.
	• The investment of energy during the development of an offspring greatly
	the individual offspring's chance of survival and
	reproduction.
	Internal versus external development:
	Laying multiple eggs (development) increases chances of
	survival for an organism.
	 development provides protection for a developing
	offspring increasing survivability.
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Summary:	