Instructional Segment	An Ocean in Motion	Fueling the Future	Saving the Seas
Grade 6 Program Synopsis	How do the forces of gravity and inertia affect waves, currents and tides in the Earth's systems? How do ocean tides, currents and waves impact the marine ecosystem? Students will explore the answer to these questions while learning about the ocean conveyor belt, tidal areas and adaptations of ocean-dwelling organisms around the globe.	What is the difference between renewable and nonrenewable resources? And what is the impact of extracting those resources on our aquatic ecosystems? Students will explore the impacts of offshore drilling, commercial fishing and even some renewable energy methods.	Earth's changing climate is drastically altering many habitats. Students will link these alterations with changes in animal adaptations and ecosystems. Students will take steps to be able to recognize signs of coral bleaching and disease through a hands-on activity and study aerial images of sea level rise.
Key Terminology	• Tides • Thermohaline • Circulation • Upwelling	• Renewable resource • Nonrenewable resource	• Sea level rise • Coral bleaching
Georgia Standards of Excellence	**S6E1d** **S6E3d**	**S6E5e** **S6E6a**	**S6E4e** **S6E6c**
NGSS Standards	**MS-ESS1** **MS-ESS2**	**MS-ESS3**	**MS-ESS2** **MS-ESS3**