listributed through currents, (2) Identify sea surface temperature and ocean currents		Date:	
rom satellite imagery, (3) Explain how Earth's ocean basins are interconnected through he flow of currents		Period:	
ssential Question: Ho	w do scientists determine what the seafloor looks like at e	xtreme depths?	
Questions:	Notes:		
	The drives the strongest	ocean currents, which occur in the	
	surface layer.		
	Wind and surface currents are driven by		
	from the Sun.		
	All of the major surface	of the open ocean are driven by the	
	wind and by heat energy from the Sun.		
	The wind and the Coriolis effect create a sp		
	, in a		
	The effects of the wind		
	The upper part of the water column that is	affected by the wind is called the	
	Though each micro-layer moves in a different direction, taken as a whole the		
	Ekman layer moves at 90 from the wind direction. This is called		
	·		
	While the trade winds move toward the eq	uator, the	
	that these trade winds p	produce move parallel to the equator.	
	Under the influence of the Coriolis effect, t	he wind-driven surface currents	
	combine into huge, circular systems called	·	
	is the movement of larg	e volumes of bottom water to the	
	surface and it is caused by Ekman transpor	t.	
	Upwelling is usually most intense in small _	patches.	
	tend:	s to be seasonal, occurring mainly	
	during the time of year when winds are strong and blow in the right direction		
	along the coast.		

	The	produces equatorial upwelling,
	especially in the Pacific.	
	The north equatorial currents transport surface water to the	
	The south equatorial currents transport water to the	
	Upwelling also occurs in a rin	g around Antarctica as a result of complex wind and
	current patterns between the	e continent and the
Summary:		