Physical Geology South Sevier High School			Name Date		
	e Notes – Chapter 14	65	Per		
1.	Ordinary ocean waves (not ts When waves strike coastlines beaches. This energy can inc	unamis) are creat , wind energy is _ crease significantl	ed byy during a storm	blowing over the s to the rocks n.	urface of the water. and sediments on
2.	Height of water waves determ blows, and the generated where high winds t	ined by the win olow over a long ϵ	d blows over the expanse of oper	, the length of e water. (Larger/Sma n water for an extende	that wind aller) waves are ed period of time.
3.	Label the parts of the wave be	low in the boxes	provided (5pts)		
			*	Wave height	
4.	Waves break along the shore the beach.	as	, spending r	nost of their energy m	noving sand along
5.	Movement of water in waves in waves decreases with dept	s in a nearly circu h until it is essent	ılar path called a ially gone at a c	an lepth of	Orbital motion the wavelength.
6.	As water shallows, orbital mot topple over, forming				es to pile up and
7.	Waves hitting the shoreline at an angle will bend and change direction to become more nearly parallel to the shoreline in a process called wave				
8.	Refracted waves still hit the cocoastline in the form of a			y water and sediments	s parallel to the
9.	Narrow currents that flow stra	ight out to sea thr	ough the surf zo	one are called	currents.
10.	A is a strip cliff or zone of permanent veg		ally sand or grav	/el) from the low-wate	r line inland to a
11.	The steepest part of a beach,	where water slos	hes as waves a	re breaking, is called	the beach
12.	Above and landward of the be	ach face is a flat	or gently inland	-sloping platform calle	ed the
13.	Longshore is mo	vement of sedim	ent parallel to sh	noreline when waves	strike it at an angle
14.	Longshore drift deposits: a build b c. A the shore.	_ bars are ridges	of sediments th	hat cut bays off from t	he ocean. erally bedrock) to

a. b.	are rock walls designed to prevent the entrance of a harbor from filling with sand are short walls perpendicular to shore built to trap sand and widen a beach.
C.	are offshore structures, typically parallel to the shoreline, built to absorb the force of large breakers and provide quiet water near shore.
16. What	are the four main sources for beach sand?
a.	b
	d
	coasts produce sea cliffs, which erode inland over time.
	coasts produce gentle sloping coastlines where sand is added.
	a place in the United States where you would expect to find the two different types of coastlines
	Depositional coasts
	Erosional coasts
20	islands, ridges of sand that parallel the shore, are common on depositional coasts
	e the following in your own words:
a.	Drowned coast –
b.	Estuary –
	Fjord –
	are drowned coasts, estuaries, and fjords increasing (5pts)?
,	
23. What	causes and emergent coast (5pts)?
24 If sea	level is actually rising, how can both erosional and depositional coasts be found around the work
(5pts)	
25 Expla	n the influence of waves and wind on the character of beach sand (i.e. sorting, roundness, size
-	ences) (5pts).
26 Why v	vould beach dimensions change with season (5nts)?
26. Why v	vould beach dimensions change with season (5pts)?

15. Human engineered structures used to interrupt the flow of sand along a beach: