	KI : The UK has a range	of diverse landscapes	GCSE Physical landscapes in the UK – Coasts Knowledge Organiser			Concordant coastline - Dorset		Discordant Coastline - Devon	
Key terms Definitions			Key terms Definitions		Durdle Door (arch)		Duriston Head (Headland)		
Chemical The decomposition of rock by a chemical change within the rock		Abrasion	The wearing away of cliffs by sediment flung by breaking waves		Lulworth Cove Swanage bay Kimmeridge (Wave Cut Platforms) Old Harry (stack) Seacombe (cliffs) Studland sanddunes Sandnaks (beach and spit)		Old Harry (stack)		
reathering Reposition Occurs when material transported by the sea is dropped due to		Attrition	Erosion caused when rocks and boulders transported by waves bump into						
Occurs when material transported by the sea is dropped due to the sea losing energy		each other and break up into smaller pieces Hydraulic power Waves breaking compress air in cracks in a cliff		KI : Different management strategies can be used to protect coastlines from the					
Erosion The wearing away and removal of material by a moving force		Transportation: Longshore Drift		effects of physical processes Beach The addition of new material to a beach artificially. Cheap (£500,					
Longshore drift	hore drift Zig zag movement of sediment along the shore caused by swash and backwash		Swash – the movement of material up the beach Backwash – the movement of		f San Saconson		The addition of new material to a beach artificially. Cheap (£500, 000 per 100 metres), easy to maintain, constant maintenance, sand from seabed destroys organisms		
Mass movement	ment The downhill movement of weathered material under the force of gravity		material back down the beach Deposition – the dropping of material		n kg	Beach reprofiling	Changing the profile or shape of the beach		
Mechanical weathering	Weathering process that causes physical disintegration of rock without any change in the chemical composition of the rock				Where there are large flat beaches Where there are engineered structures e.g. groynes	Dune regeneration	Action taken to build up dunes and increase vegetation to strengthen the dunes and prevent excessive coastal retreat. Maintains natural environment, cheap, time consuming, areas or strengths.		
Sliding	Loose material becomes saturated and flows downhill		KI : Distinctive coastal landforms are the result of rock type, structure and				limit, limited area £200 – £2000 per 100 metres		
Slumping	A whole segment of the cliff moves down slope along a saturated shear-plane or line of weakness		physical processes Key terms Definitions		Gabion	Steel wire mesh filled with boulders. £50,000 pre 100 metres. Cheap, improves cliff management, unattractive, last 5 – 10 years			
Transportation	The movement of eroded material		Key terms Arch	A wave eroded passage through a headland When a spit grows across a bay to create a lagoon		Groyne	Wooden barrier built out into the sea to stop longshore drift. £150,000 each, cheap, widen beach, unattractive, causes problems down the coast		
Waves	Ripples in the sea caused by the transfer of energy from the wind blowing over the surface of the sea		Bar						
KI : The coast is shaped by a number of physical processes		Beach	The zone of	deposited material that extends from the low water line to the	Hard Use of concrete and large artificial structures to defend the coast engineering				
Constructive waves Destructive waves		limit of storm waves Cave Large hole in the cliff caused by waves forcing their way into cracks in the cliff		Managed retreat	Allowing cliff erosion to occur as nature takes its course. Cheap, natural process, loss of land, relocation of people				
Powerful swash Weaker backwash		Weak swash Strong backwash Short wave length Higher wave height	Cliff	A steep high	rock face formed by weathering and erosion along the coastline	Rock armour			
Long wave length Low wave height	Law was in a magning of the properties of the state of th		Headlands and bays	these have been eroded back			defences. £20,000 per 100 metres, quick to build, expensive to transport rock, rocks might not blend in		
Gentle beach		Steep beach	Sea wall Coastal sand hill above the high tide mark		A concrete wall to reflect the energy of the sea and prevent erosion. £5000 - £10,000 a metre, effective barrier, promenade on				
Types of weathering Mechanical weathering Disintegration / break up of rock e.g. freeze thaw		Spit	A finger of sediment extending from the shore caused by deposition		Soft	top, expensive, high maintenance Managing erosion by working with natural processes			
			Stack	An isolated p	oillar of rock left when an arch has collapsed	engineering	, , ,		
Chemical weathering		Caused by chemical changes e.g. carbonation, oxidation	Wave cut platform	A rocky level	shelf representing the base of retreated cliffs	Example of a coastal management scheme : Me coastal realignment			
Mass movement	Downward movement of material under the influence of gravity		control of by becomes ended and is ended hydroxida action larger colleges to a strop. Packet or recoverset coastlines coastlines coastlines coastlines coastlines. Affant or discontant coastlines. Cliff 1. Sea erocles cliff Linestone (hard) Sea Clay (soft)			Reasons for		Could not justify cost of new seawall Flat low lying land Role of climate change	
Sliding	Blocks of rock slide downhill					management	Role of clin		
Slumping	Rotational slip of saturated soil and weak rock					• £20,000 • If breach road affe		ge only protection year spent on beach reprofiling	
Rock falls	Fragments of rock break away from the cliff face		2. The track grows 4. The care breaks 6. This issues from care by through the headed of the care by through the headed of the care by the						
Styles of Mass Wasting Glide (or Slide) Scarp			the beach building process month week wind bracks: Week diseases and grow pring us Week suit grow pring us We			Management • Let sea floor strategy • Build new • Channel to		ore was £5 million damage od low lying area embankment 2 km in collect draining water ur on embankment beach built	
Most likely in layere with bedding plan fractures parallel to Rocktal Takes	d rocks Most likely or soils or u	Hummody responsery res	The Formation of a Spit Sold new Agency Sold	WAVES STT SPET	Formation of a Bar Format	Resulting effect and conflicts	tourism Protected £28 million 1 in 1000 c Cycle route Increase in Recently fil beef indus Expensive	tmarsh as natural buffer leading to surrounding farmland and caravan parks embankments constructed inland hance of a flood and footpath tourism – 300ha nature reserve boded area helps fishing and salt marsh try for area of sparse population ents and farmers resent land lost	

