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Hazard –

Disaster –

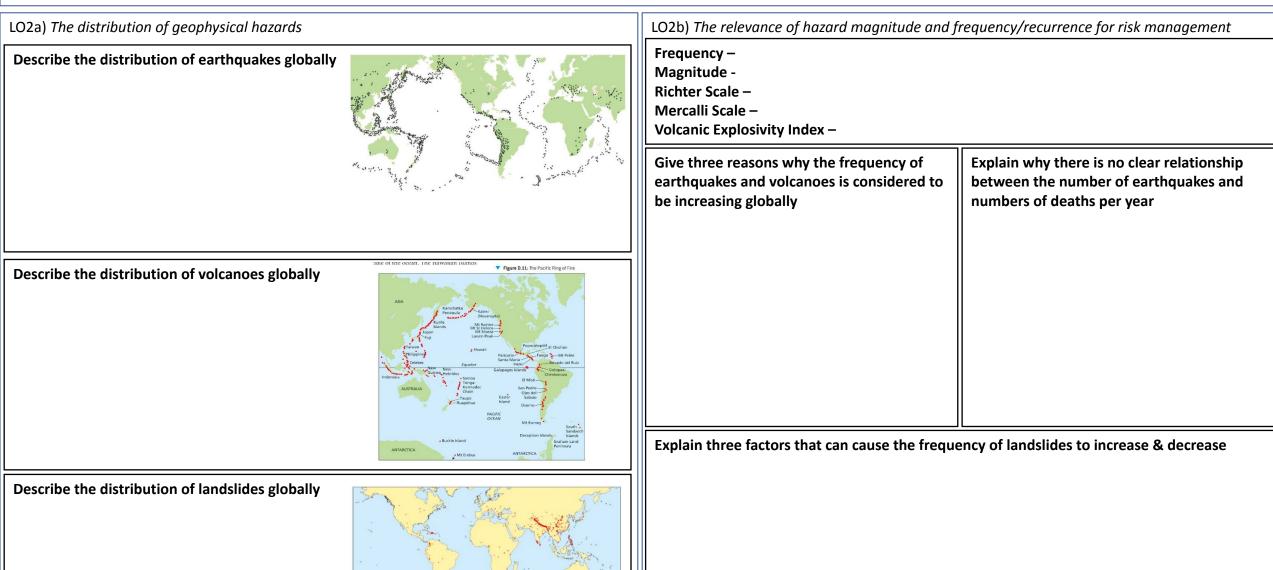
Geophysical hazard -

LO1a) Mechanisms of plate movement							
Draw and label a diagram to show the structure of the Earth. Include temperatures.		Explain the crust	difference between	Oceanic & Continental	Draw and label a diagram to show how convection currents in the mantle occur		
		Crust Oceanic Continental Thickness Image: Continental Material Image: Continental					
Draw and label a diagram to show a oceanic-continental convergence plate boundary. Include an example.	continental-o	oel a diagram t continental con clude an exam	nvergence plate	Draw and label a diagram to divergent plate boundary. In example.		Draw and label a diagram to show a conservative plate boundary. Include an example.	

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LO1b) Characteristics of volcanoes formed by varyin	ng types of volco	nic eruptions						
Active volcano – Dormant Volcano – Extinct volcano – Lava – Magma – Primary impact – Secondary Impact – Viscous – Non-viscous -				Describe the distribution of volcanic activity around the world				
	_		1	└ Volcanic Hazards				
Draw three diagrams to show shield, composite & cinder volcanoes	Plate margin	Convergent	nt Divergent Hazard Type Pyroclastic Flow	Hazard Type	Description	F	Primary/Secondary Impact	
	Viscosity of lava							
	Magma Source			Lahars				
	Magma's Physical Character			Lava Flows				
	istics			Landslides				
	Eruption interval & hazard Ivl			Flooding				
				Climate Change				

LO1c) Characteristics of earthquakes		Human impacts on the risk of earthquakes					
Earthquake – Epicenter –		Factor	Description	Impact		Example	
Focus – Seismic Waves - Aftershock –		Dam building					
Draw and label a diagram to show P-waves	Draw a diagram to show the focus & epicenter of an earthquake	Resource extraction Fracking					
		Fracking					
Draw and label a diagram to show S-waves							
		Earthquake Haz	ards				
		Hazard Type	Description	Prima		nary/Secondary Impact	
		Landslides					
Draw and label a diagram to show Rayleigh-waves		Liquefaction					
		Tsunamis					

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LO1d)	Classification	n of mass mov	ement typ	es								
Mass Movement – Liquidity – Duration – Extent -								Solifluction – Gelifluction -				
Classify the different mass movement types					Explain the difference between 'Sheer Expla				n three factors which increase and three factors which			
Liqu	id Content	Wet		Dry		Strength' 8	& 'Sheer Stre	ess'	decreas	e sheer strength		
Mov	t. Speed											
Slow Fast												
	s of Mass Mo	vement			1			1			four factors which promo	te mass
Mot ion										movement Factor	Description	
Liqu idity										Slope		
Mat erial										Water		
Spe ed										Texture		
Тур	Falls	Slide		Slump	Debris Flow	Mudflow	Avalanche	Creep	Lateral Spreading	Initial Impetus		



Option D	. deophysic			Fage 0					
		s a product of economic factors ing geophysical hazard event impacts		Vulnerability – Risk -					
Explain three 1)	e factors which ind	crease the vulnerability of an individual to a hazard		Explain three factors which increase the vulnerability of a community to a hazard 1)					
2)				2)					
3)				3)					
Human factors which impacts hazardous events				Physical factors which impacts hazardous events					
Factor	SEPD?	How impacts hazardous events & vulnerability		Factor	SEPD?	How impacts hazardous events & vulnerability Image: Imag			

		_				
LO3a) Two contemporary case studie.	s of volcanic hazard events in contrasting plate boundaries	LO3b) Two contemporary contrasting case studies of earthquake hazard events of similar magnitudes but with contrasting human impacts				
Eyjafjallajokull, Iceland (2010)		Port-au-Prince, Haiti (2010)				
Plate Boundary & Vulnerability	Causes & Impacts	Plate Boundary & Vulnerability	Causes & Impacts			
Future Possibilities	Responses & successes/failures (Relief, Recon., Rehab.)	Future Possibilities	Responses & successes/failures (Relief, Recon., Rehab.)			
Chaitan, Chile (2008)		Christchurch, NZ (2010)				
Plate Boundary & Vulnerability	Causes & Impacts	Plate Boundary & Vulnerability	Causes & Impacts			
Future Possibilities	Responses & successes/failures (Relief, Recon., Rehab.)	Future Possibilities	Responses & successes/failures (Relief, Recon., Rehab.)			

		45	1 466 0				
		lifferent aspects of human well-being	LO3c) Two contemporary contrasting case studies of mass movement hazard events with contrasting physical characteristics				
Outline the diffe	erent attitudes to hazards		Geyzerov landslide, Russia (20				
			Vulnerability	Mass Movt. Process & Impacts			
	case study, identify huma the community impacted	n & physical factors which increased the					
Case Study	Factor	How impacted vulnerability of the community	Future Possibilities	Responses & successes/failures (Relief, Recon., Rehab.)			
Haiti	1)						
	2)						
	3)						
Christchurch	1)		Oso mudslide, WA, USA (2014))			
	2)		Vulnerability	Mass Movt. Process & Impacts			
	3)						
Chaitan	1)						
	2)		Future Possibilities Responses & successes/fi				
	3)			(Relief, Recon., Rehab.)			
Eyjafjallajokull	1)						
	2)						
	3)						

LO4a) Global geophysical hazard and disaster tre	ends and future projections	LO4b) Geophysical hazard adaptation through increased govt. planning and personal resilience				
Isostatic Readjustment –		Adaptation –				
Describe the trends in volcanic eruptions since the 1600s	Explain why communities can cope better with high-frequency low-magnitude events than low-frequency high magnitude events	Resilience – Predicting – Forecasting - Explain examples of govt. planning to reduce community risk to hazards				
G Englishes and Strength Katalog ; 1600, portraet		1) 2) 3)				
Explain how instability in the Earth's Orbit could explain the fluctuation in volcanic eruptions	Explain how isostatic readjustment could explain the fluctuation in volcanic eruptions	Explain examples of personal adaptation to reduce individual risk to hazards 1)				
		2) 3)				
Explain three other reasons why the number of volcanic eruptions could be considered to be increasing over time 1)		Explain how land-use zoning can reduce the risk of the following hazards 1) Volcanic eruptions:				
2)		2) Earthquakes:				
3)		3) Landslides:				

LO4c) Pre-e	vent management	t strategies	LO4d) Pos	t-event mana <u>c</u>	gement strategies				
Give three	pre-management	strategies for each hazard & how it helps mitigates the hazard			meframes of Park's Hazar	d Response Model. Descrik	e what happens		
Hazard	Pre-Mgt. Method	How helps mitigate		in each stage Stage Time frame Description					
Earthqua kes	1)		1: 2:						
	2)		3:						
	3)		4.				Anne Beller Anne Same Mana Wana		
			Give three post-management strategies for each case study & how successful it wa						
Volcanoe s	1)		Case Study	Post-Mgt. Method	Details	Successful/not s	successful?		
			Haiti	1)					
	2)			2)					
	3)			3)					
			Christch urch	1)					
Mass Movt.	1)			2)					
				3)					
	2)		Chaitan	1)					
	3)			2)					
				3)					