VOLCAN	O NOTI	ES CH.	APTER 1	0-1	NAME _		
	- a	areas on ea	arth's surfa	ace wł	nere magm	a and volc	canic gases
pass throu	gh a ven	t or fissur	e		_		_
1. Orig	in of ma	gma:					
			de of liau	ıid			
b.	Can for	m by add	ing		(from	friction +	Earth's hot
c.	Can for	m bv		me	lting – pre	ssure is rel	leased as
					very hot li		
	\mathcal{L}	<u> </u>	y restrict		•	1	
d.	Can for		•	_	,	k—lowers	it's melting
2. Type	es of vol	canism:					
a.		v	olcanism	- plate	pull		_and lava fills
	the voice	d					
	i. If	underwat	er, landfo	orm is	an ocean _		
	ii. If	on land, l	andform	is a			
b.		V	olcanism	- plate	s subduct,	melt, then	l
		form		_			
	i. If	underwat	er, volcar	nic		arcs for	m
	ii. If	on land,			volcanic a	rcs form	
c.		V	olcanism	– hots	volcanic a spot in eart	th melts a	hole in a
		plate a	and makes	s a vol	cano		
	i. If	underwat	er, an		for		
	ii. If	on land, a	a random		forms	S	
СНАРТЕІ	R 10-2						
1 Facto	ors affec	tino					
1. 1 ucu	ors arree		high visa	—· cosity=	=	lav	a and
u.		viscos	sitv = thin	lava		1a v	u unu
			•		s more		and
		oesn't flov					uiiu
	ii. L	ava that ic	· ub		_viscous i	s less exnl	osive and
	fl. fl	ows a	w	av	_ 1500651	o ress expi	obi ve dila

b .	Diss	olved				
	i.	Basaltic lava allows gases to escape making eruptions				
	ii.	Granitic lava gases from escaping so they build up and				
2. Volc	anic 1	material:				
a.	Lava	1				
	i.	hotter,, faster moving				
		basaltic lava-hardens				
	ii.	cooler, thicker,moving basaltic				
		lava-hardens				
	iii.	lava- when lava eruptsforming				
		rounded lumps				
b.	gase	S				
	i.	volcanoes can emit of tons of gases each day				
	ii.	more gas =, especially with thick lava				
	iii.	less gas = more				
c.		materials- solid fragmentsfrom a				
		ano (not and and and				
	races	s downhill at overkm/ hour anddegrees C				
	i.	(less thanmm) tinyshards				
	that are microscopic and hundreds of degrees					
	ii.	Volcanic (less thanmm) gases in magma form				
		bubbles, then the walls of the bubbles break into tiny,				
		glasslike				
	iii.	(less than millimeters) sand sized to				
		tennis ball-lava bits that harden while in the				
	iv.	volcanic larger than 64 mm (baseball-to				
		house sized) solidblasted out				
	v.	volcanic larger than 64 mm (baseball-to				
		house sized) lava blob thatin the air				

3.	Volc	ano a	anatomy:					
	a.	the first crack magma breaks through						
	b.	opening at the top of a volcano						
		magma large blob of melted magma under the						
			volcano					
	d.	main pipe through which magma exits crater- rim						
		arou	and top of volcano					
4.	Туре	s of	volcanoes:					
		i.	shaped volcano					
		ii.	built from layer upon layer of non- eruptions					
		iii.	thinlava					
		iv.	EXAMPLE: Mauna Kea in (the tallest mt in					
			the world)					
	b.		cone-					
		i.	volcano					
		ii.	1 /					
		iii.	ilava and big chunky rocks exit and don't					
			move					
		iv.	relatively					
			example: Paricutin in					
	c.		volcanoes-					
		i.	forms fromexplosive and non explosive					
			eruptions					
		ii.						
			huge quantities ofmaterial					
		iv.	example: Mt. St. Helens in					
5.	Othe	r vol	canic landforms:					
	a.		at the top of a					
		volc	eano					
	b.		large pit created when the magma chamber					

	c.	. Lava w	vide, flat, raised landform th	at results from
		repeated non explosive		
	d.	l. volcanic	- rock formation made of co	ore of volcano
		that is now		
6.	volc	canic hazards:		
	a.	. mudflows (),	
	b.	o flows,		
	c.	mudflows (flows,flows, l. volcanic		
	d.	l. volcanic		
		 blocks sunlight & a 	iffects gro	wth
		 blocks 	and cools climate	
		destroy		
		• ash creates		
	e.	. volcanic gases- combine	with water to make	rain
	f.	(if und	er water)	
			,	
CHA	PTE	ER 10-3		
1.		-magma body	that hardens underground (from Pluto
		d of the underworld)	<u> </u>	
	a.	flat mag	gma flow between	of
		sedimentary rock		
			magma flow between	een layers of
		sedimentary rock		•
	c.	flow of	magma that moves upward	and
		across se		
	d.		_pluton; over 100 square ki	lometers
2.	Volc	cano categories:		
	a.	not eru	pted in recorded history and	l probably
		never will erupt	•	
	b.	o.) currently not eru	upting but
		probably will again		
	c.	current - current	ly erupting or showing sign	s of erupting
		in the near future.		
3.		dicting volcanoes		
	a.	activity	increases	
	b.	o. Surface starts	_ (gps monitors)	
	c.	. Changes in the	of the gases that come	out