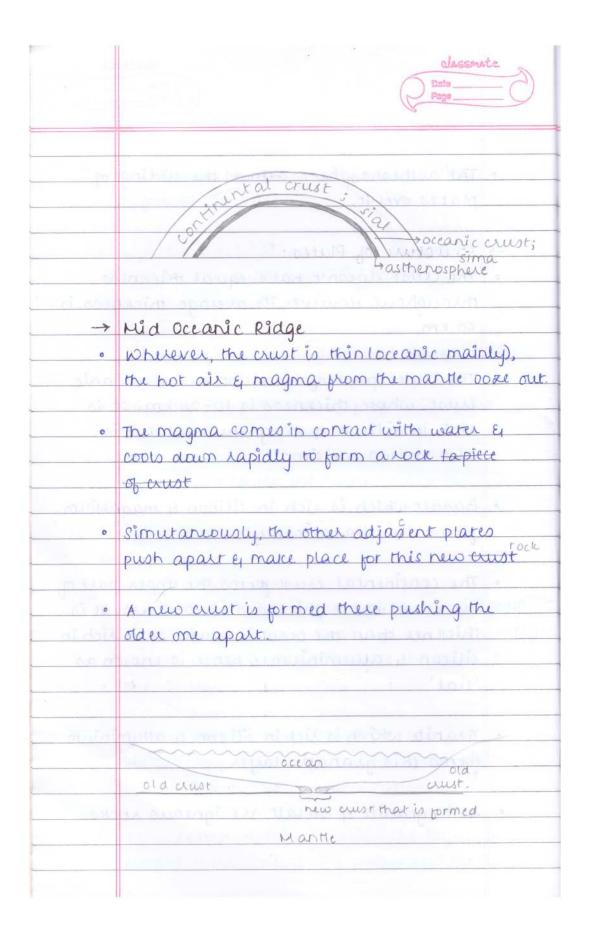


DHUMBAR CECUDADER

- The heavier part/material started sinking Expormed the core.
- · Lighter material rose to the surface & became the outermost lithosphere I crust.
- → The Tectonic Plates:
- The hot air/gases try to come out from the mantle & hit the weak parts of the crust, causing the formation of fragments of the crust.
- · The volcanoes do the same
 - · These fragments of the crust are known as plates.
- · These plates move as the hot gases with high kinetic energy try to come up but eventually fail to escape into almosphere because of the crust.
- · Hence, they occupy the alea/space just beneath the crust causing its lower part to partially melt.
- o As a result, a thin plastic-like layer is formed there, called the asthenosphere.



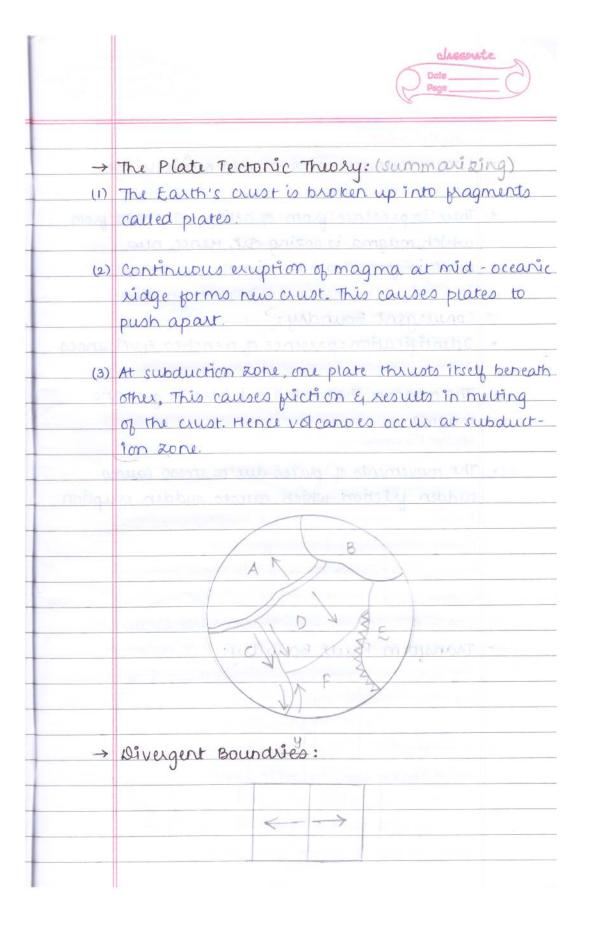
- · The asthernosphere allows the stiding of plates over it. -> structure of Plates: · The crust doesn't have equal thickness throughout However, its average thickness is · The lower part of the crust is the oceanic clust whose thickness is 10-20 km. It is sich in silicon & magnétum & hence is also known as 'sima'. · Basalt which is sich in silicon & magnesium, forms this basatic layer. The continental crust forms the upper part of the crust whose thickness is 70-80 km. It is thickness than the oceanic court. It is rich in siticon & alluminium & hence is known as 'sial'
- · Granite which is sich in sili con & alluminium forms this granatic layer
- · Both, granite & Basalt are igneous rocks.



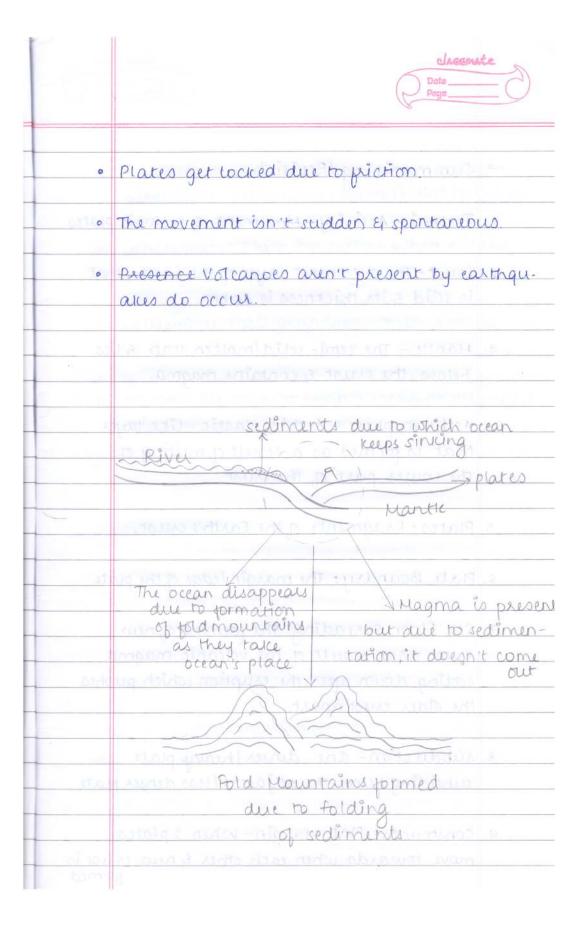


	Classmate Date Page
đ	The Mountain Range under the Atlantic Ocean is known as Mid Atlantic Ridge.
o	It was discovered by the sonar.
0	The Range runs parallel to the Eastern boundary of NA & SA & Western boundary of Europe & Africa.
	This is a striking thing & yet no co-incidence.
	Traticopole mas estate a management
0	This range is a chain of active volcanoes. They This states that these volcanoes have pushed
	The states that these virtues was pushed
	apart its adjacent plates
	apart its adjacent plates
	apart its adjacent plates
zlajat.	apart its adjacent plates
	apart its adjacent plates
	apart its adjacent plates
zlajat.	A c & F D B
zlajat:	apart its adjacent plates
Asido	NA LE F D B
Asiat	NA A C F D B SA SA
	NA A C F D B Rocks of:
Asiat	NA A & F D B Rocks of: A & B are same in age (200 m yrs)

	Classmate Data Page
nouse	HIMMING SAND ALEMAN SANDA AT ANALYSIS THE
	in the second of Miller of Bridge
	denser.
	8
-	The Parent survey and to the trail
nodis:	Symmetry a reason a A2 of AM project
	Subduction Zone:
0	when 2 pairs of plates move apart together,
	simultaneous 2 plates come towards each-
past	other.
0	when such a thing happens, the denser &
	heavier stides down subducts inder the
	lighter one.
0	pue to piction, a lot of hear is produced which
	melts the subsiding plate to form magma.
0	The place larea where this activity takes
	place is called Subduction Zone
0	At the subduction zone, the ocean floor is
	the deepest. This is known as trench
	minimum 21 sps of smooths at a si
	The special sp

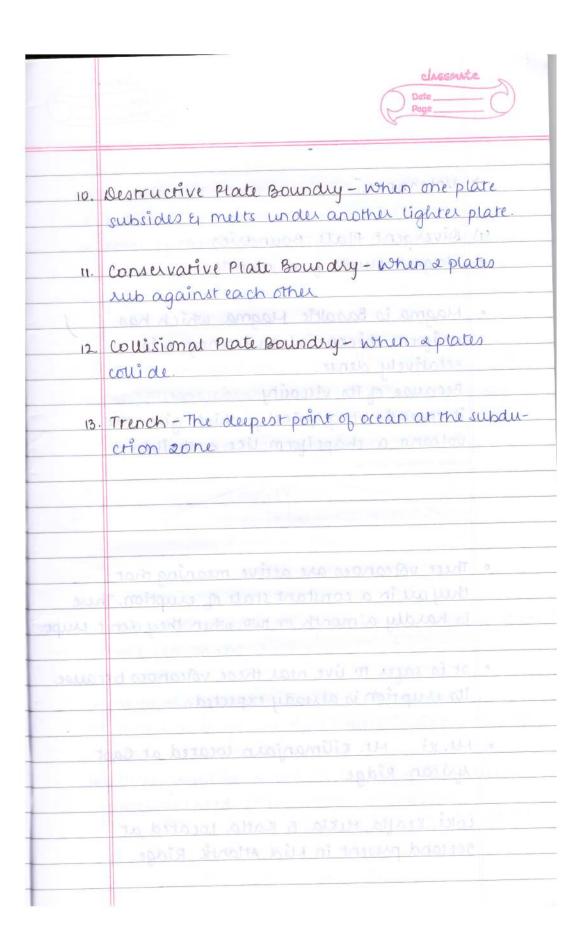


	Classmate Date Page
	odentification:
•	Located underwater at mid ocenic ridge.
strasy	my maine attack interest that I'm the
0	There is presence from of active volcanoes from which magma is obzing out. Hence, new
e sianno	aust is formed all the time.
CI S	Tidge print numerical Trin Courses plat
\rightarrow	convergent Boundry:
0	odentification: presence of trenches & volcanoes.
disease.	Issal assurance and and analysis (A)(E)
0	The magma that ookes out here is granatic
tuthd	magma
6	The movements of plates due to stress causes
	sudden priction which causes sudden eruption.
	The state of the s
	\rightarrow
	and the second s
	CALEBOO CONTRACTOR OF CONTRACT
<i>→</i>	Transform Fault Boundry:
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1	A
	Live Stappying
	The state of the s
_	at depart data for the second
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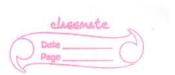




→ Summarizing / Revision: 1. Tectonic Activity - Movement of rectonic plates 2 Crust-The outermost layer of the Earth that is solid & its thickness is 60 km 3. Hantle - The sem - solid/molten state & lies below the crust & contains magma 4. Asthenosphere - A thin plastic - like layer that is formed as a result of melting of the lower part of the crust 5. Plates: Fragments of the Earth's crust. 6. Plate Boundry: The margin ledge of the plate 7. Sea Floor spreading: The forming of new crust as a result of the volcanic magna cooling down after the eruption which pushes the older crust apart. 8. Subduction- one denser I heavy plate subsiding below the adjacent/less denser plate 9. Constructive Plate Hargin-When 2 plates
apart from move towards when each other & new crust is formed



	Date Page	
→	Volcanoes.	
(1)	Divergent Plate Boundries.	
	Magma erupto from mantle	
0	Magma is Basaltic Magma which has	
	uniform thickness/consistency; & is	
	relatively dense.	
	Because of its viscosity (resistance to flow),	
-mbeliti	it spreads very quickly which gives the	
	volcano a shapelform like a sheild.	
0	These volcanoes are active meaning that	
	they are in a constant state of eruption. There	
	is hardly a month or two when they don't erupt.	
,0	It is safe to live near these volcanoes because	
	its exuption is already expected.	
	Examples: Ht. Kilimanjaro located at East	
	African Ridge	
	Loici, Keafla, Hekla & Katla Located at	
	oceland present in Mid Atlantic Ridge	



		Date
-		
-		Convergent Plate Boundry.
	O	Magma is produced due to subbing of plates. Most of the fines, it is a continental plate &
	þ	against each other
	0	The Magma is Granatic Magma which is uneven in consistency. Thin at the others) Its thicker I denser part is viscos where as
1		the thinner part is not. Due to this the shape
1		
		of the volcano is in the form of a cone.
		11
		mit o la un a trapagu - 2
1		John Steller State of the State
		HOT SPOTS AND TAKETES PRIMITES AND A TOPA
	O	These volcanoes can be active but most of them are dormant. To can emprony time
	0	et is dangerous to live near them because:
		they can exupt any time; there is no predictabi-
	(b)	there could be a sudden outlet of lava due to
-		accumulated stress dwhich is caused by sudden subsiding movement of tectoric plates
+		can malt that some intaller.
+		

	Classmate Date Page
(3)	Heading: 100 may 100 tarper 100 for
. 69161	a place of the partition of the property of
	A Least of All times it is a continue to the
0.7	forme along singers of tentage partidules
	grata las be taning o
	Dida ampart stranger is before the
-	- panisisan ni nawas
	A, B, CE, D are volcanoes
10000	That think is partitioned than this that
0	A-oldeste extinct
-	C-
	0-yongest & the most active.
0	These volcanoes are found over HOT SPOTS OF MANTLE PLUMES.
-	
- rount to	meets due to the extremely high temp. in its sourcun-
m	dings. It becomes less dense & sises up. Mantle The alea I place
-	up are called
- lambi	higher concentration MANTLE PLUME
- di u	ents Odivergent
	Increase in formation of these volcanoes
4-	can make that zone weaker.
-	

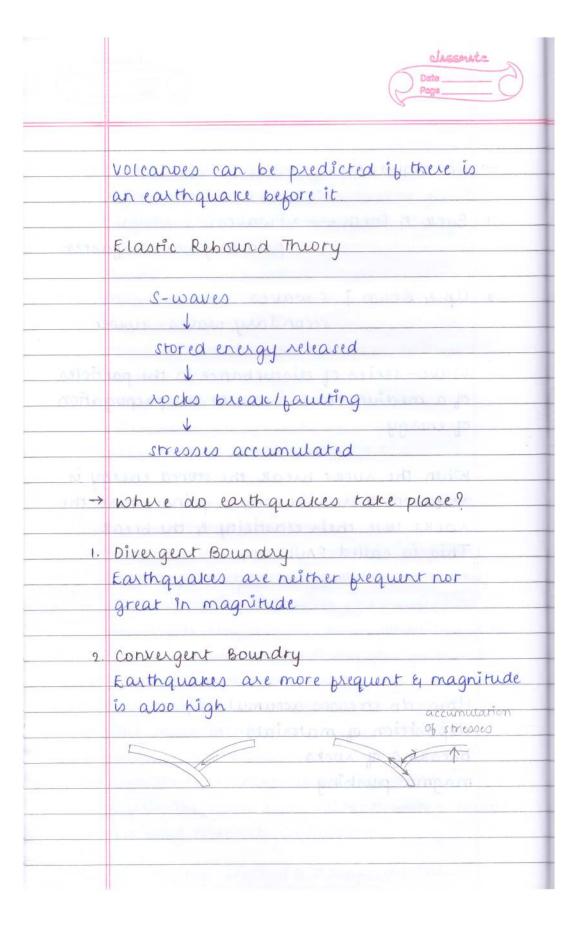


	Date Page
⇒	Destructive/Negetive Effects of Volcanoes:
\rightarrow	Occurence of Earthquakes before volcanic exuption.
->	Toxic Gases such as co + so2 that come out first as the volcano erupts.
·	Ash Cloud containing dust particles & gases which it inhaled, can cause death, or also causes loss of visibility.
→ 	Pyroclastic Cloud is a mixture of ctouds. Pyroclastic Cloud is a mixture of ctouds. Pyromes from the word pressure of clastic mean piece of rock. Because of pressure inside the volcano, rocks break into pieces & explode from the volcano along with gases. They have got a very high speed & are destructive.
→	Volcanic bombs are lumps of semi molten rock with high temperature that are thrown out due to eruption of volcano. They can cause fire
\rightarrow	Lava is viscos & hence it moves very slowly. This makes it the least destructive result of
3/kg/c	an volcanic exuption.

	Classmate Date Page
\rightarrow	Lahar is a mixture of snow, lava, soil &
	pyroclastic material. It occurs in glacier
	regions like a kind of mudflow.
*	Landsüde - stiding of soil migue
	Mudflow- when a large mass of soil comes
_ium_a	down a steep supe, it behaves like liquid.
	Its qualified speed is 200 km/hr & it is the
	most dangerous & des tructive of natural disaster
	B caparag dank painterna, hunt da =
>	Adds carbon disside to atmosphere.
	a de la company de la company
\rightarrow	Constructive / Positive Effects:
a Pyze	- Paraclantic Claud is a mintust of close
	New crust is formed due to the exuption.
	Formation of New Soil. Volcanic exuptions
Jundi	lead to formation Black soil which is very
	férfile because it consists of LIMCAP (lime,
	Ironoxide, Magnesium, Cacos, Aluminia + q
Minx	Potash) Potash is very important for plants
	weathered Particles + humas = Soil:
	in to scuption of valence that can cau
\rightarrow	The place becomes a tourist attraction.
- 146	als pero audient it sould a sould at audit to
->	Geo Thumal Energy is the heat energy of
	Earth. The gases from volcano with pressure
	are used to rotate turbines.



	Date:
>	Earthquakes
	Page C Cartle 2 - 2 Purgues
1,	Back & Forth ← → Pwaves primary waves - faster
2.	up & Down I s waves 200000-2
	secondary waves - slower
	the stored ence get retracted
	wave-series of disturbance in the particles
	of a medium caused due to the propogation
	of energy.
	hat a literature and a second a
	When the rocks break the stored energy is
	released. There will come a point where the rocks lose their elasticity of the break.
	The state of the s
	This is called FAULTING
	This is called FAULTING
	This is called FAULTING
	This is called FAULTING - deposion to place
Hude	This is called FAULTING - deposition to place
itude	This is called FAULTING - depos on ta place
Hude	This is called FAULTING - depos on ta place How do stresses accumulate?
Hude	This is called FAULTING deposition of materials
Hude	This is called FAULTING - deposition of materials breaking of NDCKS
Hude	This is called FAULTING deposition of materials
Bbutt	This is called FAULTING - deposition of materials breaking of NDCKS





			Date
		Translarm Fault Bour	dwin-satornia i
	3.	Transform fault Bound Earthquakes are more	destructive but not
Ī		powerful. Cause harm to	
		& hence are more destr	
		q rup a accirate assi	ucivo.
	*	Measuring Intensity	
		Powerful	Destructive
		Ritcher scale	· Mercalli scale
		1-9	1-12
		measures amount	· measures amount
		of energy; scientific	of destruction in
			terms of lives, proper
			ty; non scientific
_		scientific because	
H		energy is measured	
_		or expressed on a	
		paper	
		and harden Amar Amar	
		1-X 3 3 4 8-107X	- exponential.
		2-10x 9-108x	
		3 - 100x	
		4 - 1000 x	
		5-10000 x	
		6-10 ⁵ x	
		7-10°X	

	Dais Page
To a	Epicentre-place where maximum energy is released
Onio	Epicentre point directly above the focus
	focus/hypocentre Lant. of energy reteased from this point
	Arrival of Pwaves
inua.	TO OFFICE TO THE TOTAL OF THE T
-/3001g	A A
	B where circles meet is epicentre area where earth- quake occurs.
	F 4 999
	speed of Pwaves in crust is 5 km/s
	x 01 - x 001 - x 001 - x
	4 - 1000 x
	5 - 10000 x
	X VI 4

