Cheatography

geological processes Cheat Sheet by aissa (aiss4.studyvot) via cheatography.com/163791/cs/34385/

spheres	of the	earth	
Hydros- phere		made up of water	rivers, lakes, streams, oceans, groundwarer, polar ice caps, glaciers, water vapor, clouds, and precip- itation
Biospher	e	made up of all living organisms	plants, animals, bacteria, fungi
Geosphe	ere	<i>ground</i> composed of all rocks and minerals	mountains, continents, ocean floor, sad, bedrocks and <i>earth's</i> <i>interior layers</i>
Atmosph	iere	body of gas that envelops earth	carbon dioxide and gaseous elements
Layers o	f eart	h	
Crust	Eart	h there are tv I (less dense	innest layer of vo types: contin-) and oceanic
	□ lis man	•	ust and upper
	litho laye	•	asthenosphere tter and malleable
Mantle	and	2 /	crust is thicker use of aluminum
Core	Cen	ter of the ear	th
		iron because	(melted) nickel of high temper-

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Layers of earth (cont)

inner core: higher temperature and is in solid form because of the atomic pressure

Geological Proces	ses
Hydrometeoro- logical Hazard	A process or phenomenon of atmosp- heric, hydrological or oceanographic nature
	Typhoon Thunderstorm Flood Storm Surge El Niño La Niña Rainfall induced landslide Tornado
Typhoon (pacific and Indian Ocean, Hurricane for Atlantic Ocean.	Are intense circulating winds with heavy rain over tropical waters and land
tropical cyclones (bagyo)	wind systems circulating around a low-pressure area (warm water)
	Tropica:l depressio- nspeed up to 61 kph
Eye of the storm	A region of most calm weather at the center of strong tropical cyclone
Monsoon	seasonal wind patter
	amihan:cloudless skies and cold mornings
	habagat: brings heavy rain
Flood	hazard brought by heavy rains where theres a progressive rise in water level

Geological Processes (cont)

is a narrow, violently rotating column of air
characterized by strong winds, heavy rains, lighting and thunder
- formed when wam air mass if forced to move upeard by cold air mass
 rise of normal sea level cause by winds that are directed toward the shore
not a Tsunami
It refers to the large-scale warming of the ocean and atmosphere across the central and east-central Equatorial Pacific.
begins in the eastern part of the Pacific Ocean, much similar to the location of El Nino. The sea surface temperatures during this period become lower by 3-5 degree Celsius. Cyclones formed during this time shift westward going to the direction of china.

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Thunderstorm Hazards

1. heavy rainfall that can lead to flooding.

2. lightning that can electrocute humans and livestock and damage electrical facilities.

3. air turbulence which can displace or disorient a flying aircraft.

4. fire that can burn building and vegetation.

Flood Hazards

1. disruption of commercial and industrial operations leading to loss of income

2. stand-still traffic causing paralysis in network transportation and communication

3. displacement of affected homes and families

3. displacement of affected homes and families

5. waterborne diseases such as leptospirosis and typhoid fever.

Geological P	rocesses
exogenic process	occuring on the surface of the earth, responsible for transf- orming rocks
weathering	breaking down of rocks
*physi- cal/mecha- nical weathe- ring8	can be done mechanically or chemically, theres no change in chemical composition
chemical weathering	the breakdown of rocks by chemical mechanisms
- Examples:	Hydration: minerals dissolving when coming into contact with water
	Carbonization : reaction between rocks and carbonic acid
	Oxidation: causes rock to become fragile

Geological Processes (cont)

Differential Weathering	- landscape shaping
	Examples: Fall, slides, flow
Erosion	The conponents of soil pile up and are physically removed from their place.
	Agents: the materials are trasported to different locations through moving water, wind, gravity, and animals
endogenic process	takes place within the earth resposible for the changes of the surface of the earth
internal heat	source of energy of endogenic processes
Geological Processes	physical processes which create and modify landforms on the surface of the Earth
Mass Wasting	the downslope movement of rocks & soil under the influence of gravity

Marine and Coa	astal Processes and Hazards
Atmospheric	Climate change and gravity
factors	
affecting	
coastal	
erosion	
Human	Pollution, and sand and
factors	gravel extraction which can
	increase the strength of the
	waves

Marine and Coastal Processes and Hazards

(cont)	
Coast	part of the land near the sea
	contains some of the world's sensitive and threatedned ecosystems
Coastal Processes	waves, tides, sea leve, change, crustal movement
	- they could pose threat to life but shape the physical enviro- nment, providing habitat such as turtle or seabird nesting beaches, reefs, and mangrove forests or seagrass beds.

Coastal Hazards

Coastal Erosion: displacement of land along the coastline

Submersion: movement of coastal sediments from the vidsible portion of a beach to the submerged nearshore region of the coast

Saltwater Intrusion: Is the movement of saltwater to freshwater

endogenic

Endogenic	caused by radioactive decay
Processes	from the Earth's core and the
	redistribution of materials in
	the Earth's interior
	effect is formation of
	landforms

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endogenic (cont)
tensional stress:	occurs when a rocks is pulled causing it to be stretched in a divergent boundary
shearing stress:	occurs when the forces that push the rocks and faults in opposite directions
compre- ssional:	occurs when a rock is <i>squeezed</i> until it folds or breaks in convergent boundary
Foldin- g/folds	wavelike plastic deformation that result to compressional stresses
Anticlines (upwar- ping)	forms mountains & hills
Synclines (downw- arping)	forms valleys and trenches
Monocline	gradual bending

Types of Stress		
Normal Fault	faulting where the hanging wall goes down	
Reverse Fault	faulting where the hanging wall goes up	
Strike-Slip Fault	faulting caused by a shearing force	
	foot wall is longer, hanging wall is shorter	
Convergent Plate Boundary	where 2 plates move towards each other and destroys the crust	
Divergent Plate Boundary	where 2 plates move away from each other and usually occurs on ocean ridges	

Types of Stress (cont)

Transform	where plates slide horizontally
Plate	past one another which
Boundary	produces zigzag plate margins
	& shallow earthquakes

3 Types of	ROCKS
Sedime	are formed from layers of sand,
ntary	silt, dead plants, and animal
rocks	skeletons.
Igneous	are formed from melted rock
rocks	deep inside the Earth.
Metamo	formed from other rocks that are
rphic	changed by heat and pressure
rocks	underground.

Ferms

Sea floor spreading	seafloor slowly spreads & moves sideways away from the mid ocean ridge
Convection Current	hot magma is forced upward to the litosphere. As it reaches its destination, the litosphere moves horizontally carrying the plates with it. As it cools, the magma becomes denser and sinks in the mantle, overlying the crust with it.
	he concept where hot air rises, cool air sinks

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