

CLASS VII CHAPTER 3 OUR CHANGING EARTH (NCERT)

TOPICS:

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- INTRODUCTION
- EARTHQUAKE
- MAJOR LAND FORMS
- WORK OF THE RIVER
- WORK OF THE SEA WAVES
- WORK OF THE ICE
- WORK OF WIND



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INTRODUCTION

❑ **LITHOSPHERIC PLATES** - lithosphere is broken into number of plates and moves very slowly due to molten magma (**MILLIMETER IN A YEAR**)

- **MOVEMENT OF THESE PLATES CAUSES CHANGES IN THE EARTH SURFACE.**
- **THE MOVEMENTS ARE DONE BY SOME FORCES**

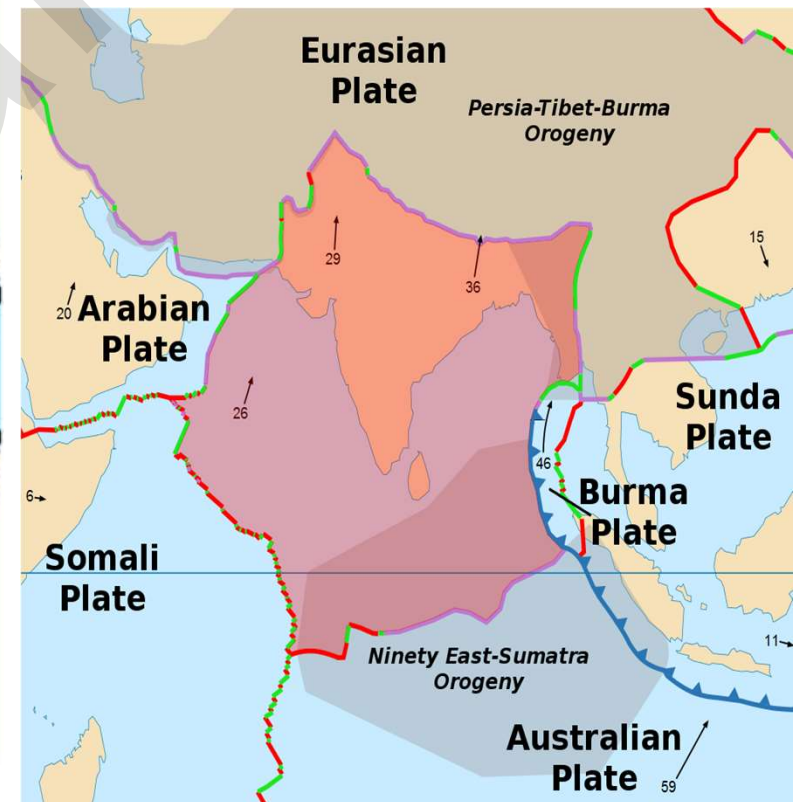
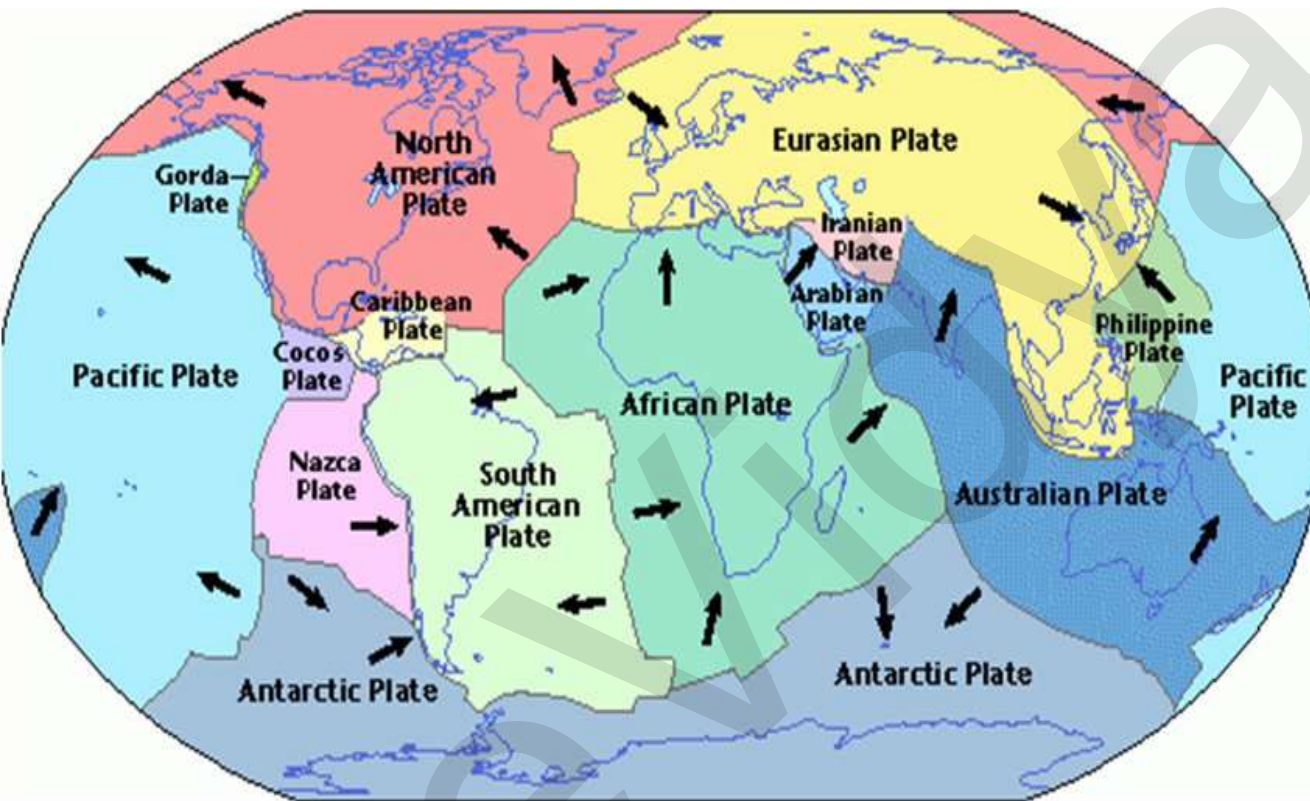
7 MAJOR

- **AFRICAN,**
- **ANTARCTIC,**
- **EURASIAN,**
- **INDO-AUSTRALIAN,**
- **NORTH AMERICAN,**
- **PACIFIC**
- **SOUTH AMERICAN.**

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TECTONIC PLATES

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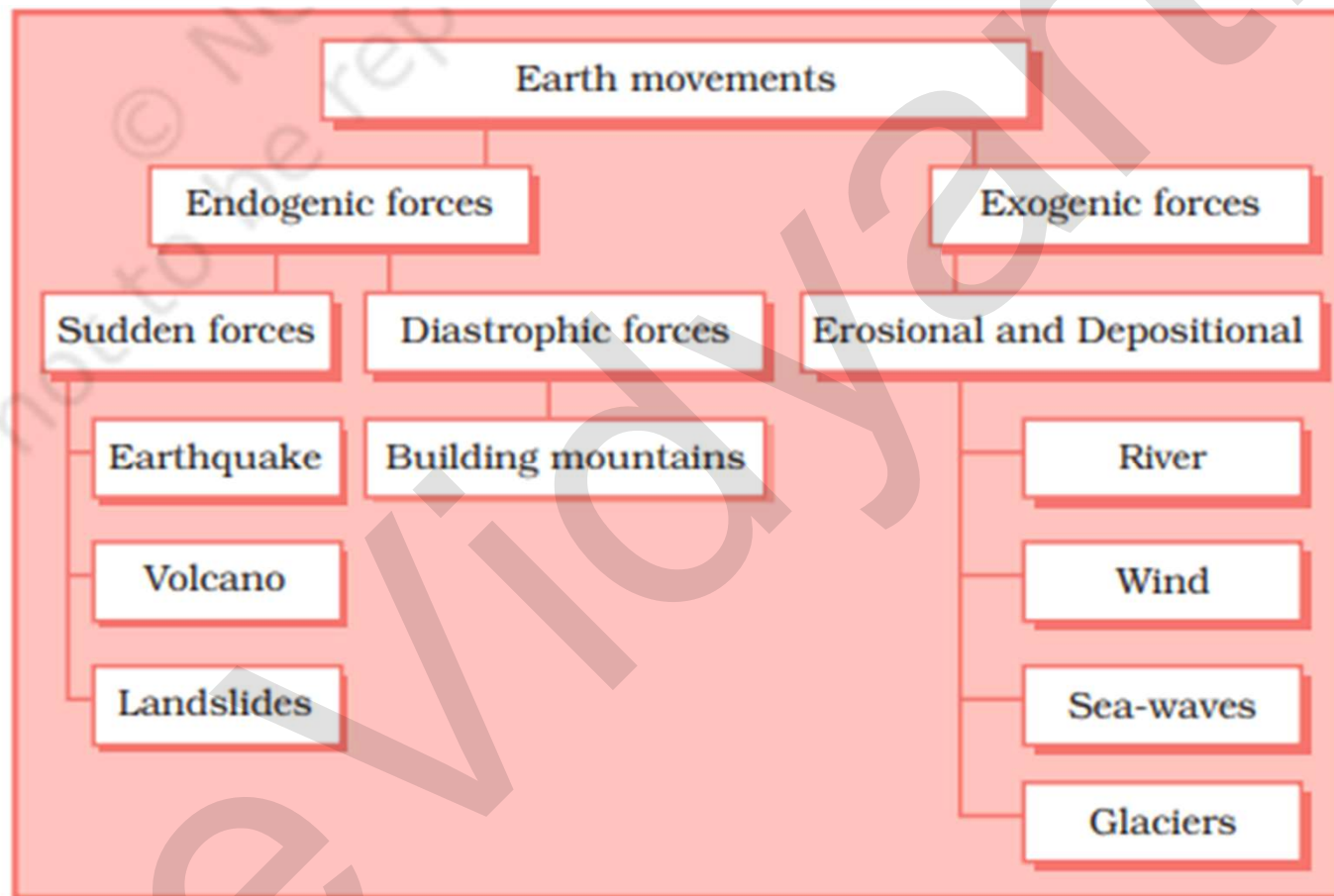
- **ENDOGENIC FORCES** - Forces which act in the interior of earth. (**INTERIOR**)
- **EXOGENIC FORCES** - Forces that works on the surface of the earth. (**EXTERIOR**)
- ❑ Produces sudden movement and sometimes slow Ex - **EARTHQUAKE** and **VOLCANOES**

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INSIDE FORCE

OUTSIDE FORCE

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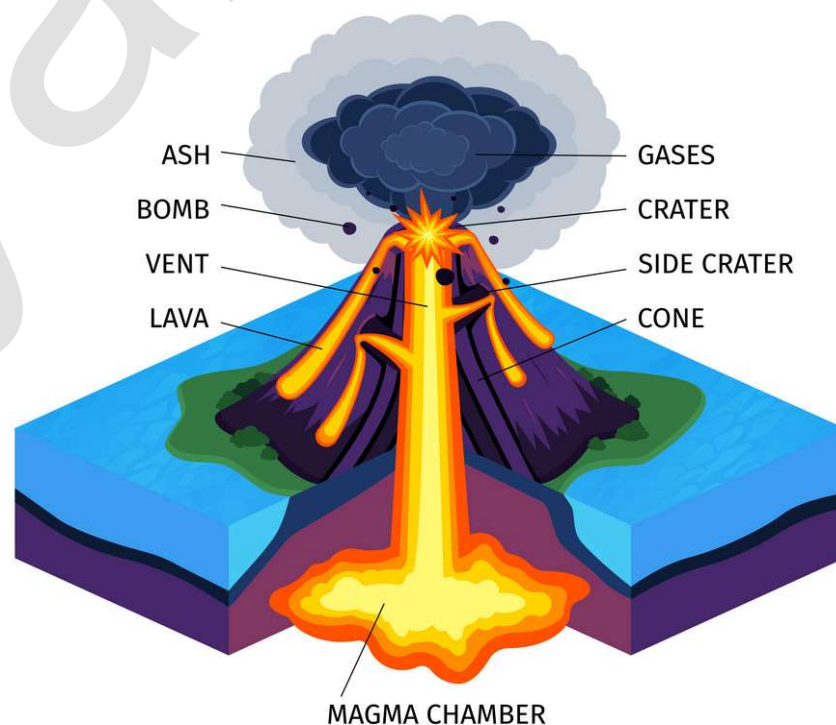


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□ **VOLCANO** – VENT (OPENING)
IN THE EARTHS CRUST
THROUGH WHICH MATERIALS
ERUPTS SUDDENLY.

VOLCANO STRUCTURE



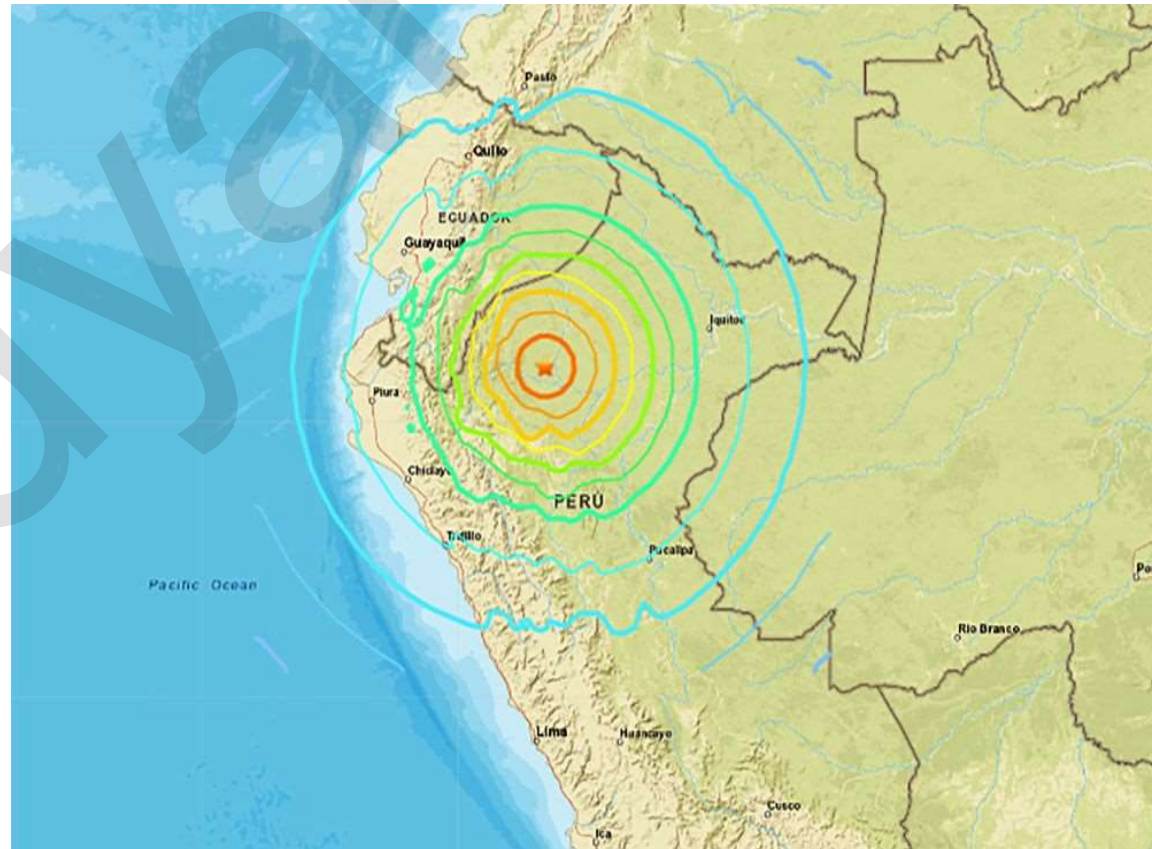
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EARTHQUAKE

❑ **EARTHQUAKE** – When lithosphere layers move, surface of the earth vibrates and travels outward on the epicenter as a wave. This vibrations is called as earthquake.



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- ❑ **EPICENTER** - The place on the surface above the earth.
- ❑ **FOCUS** - The place in the crust where the movement starts.
- **EARTHQUAKE CANNOT BE PREDICTED BUT THERE ARE SOME METHODS ADOPTED BY LOCAL PEOPLE SUCH AS ANIMAL BEHAVIOR – FISHES GETTING AGITATED , SNAKES COMING IN THE SURFACE OF THE EARTH.**



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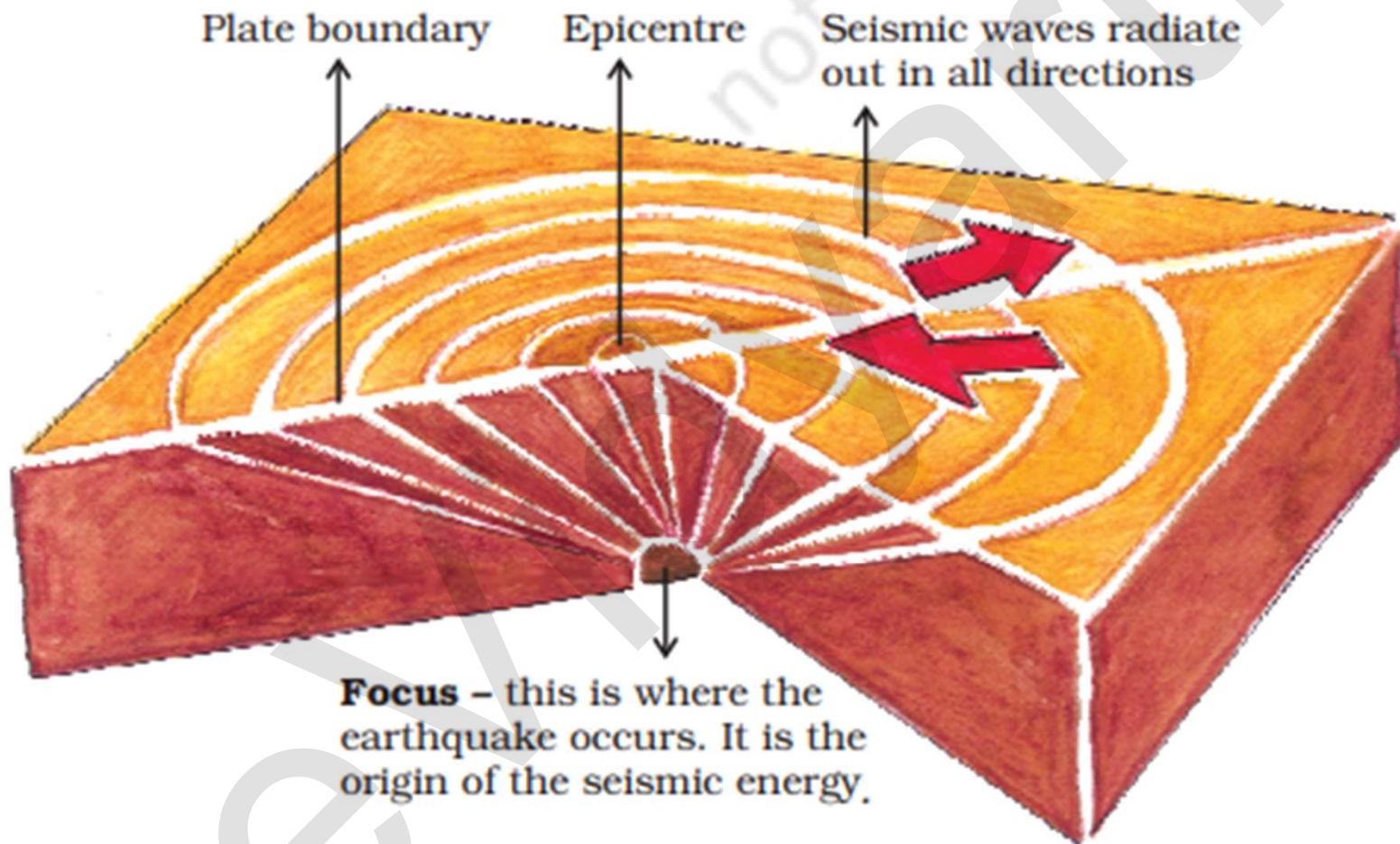
EARTHQUAKE DISASTER



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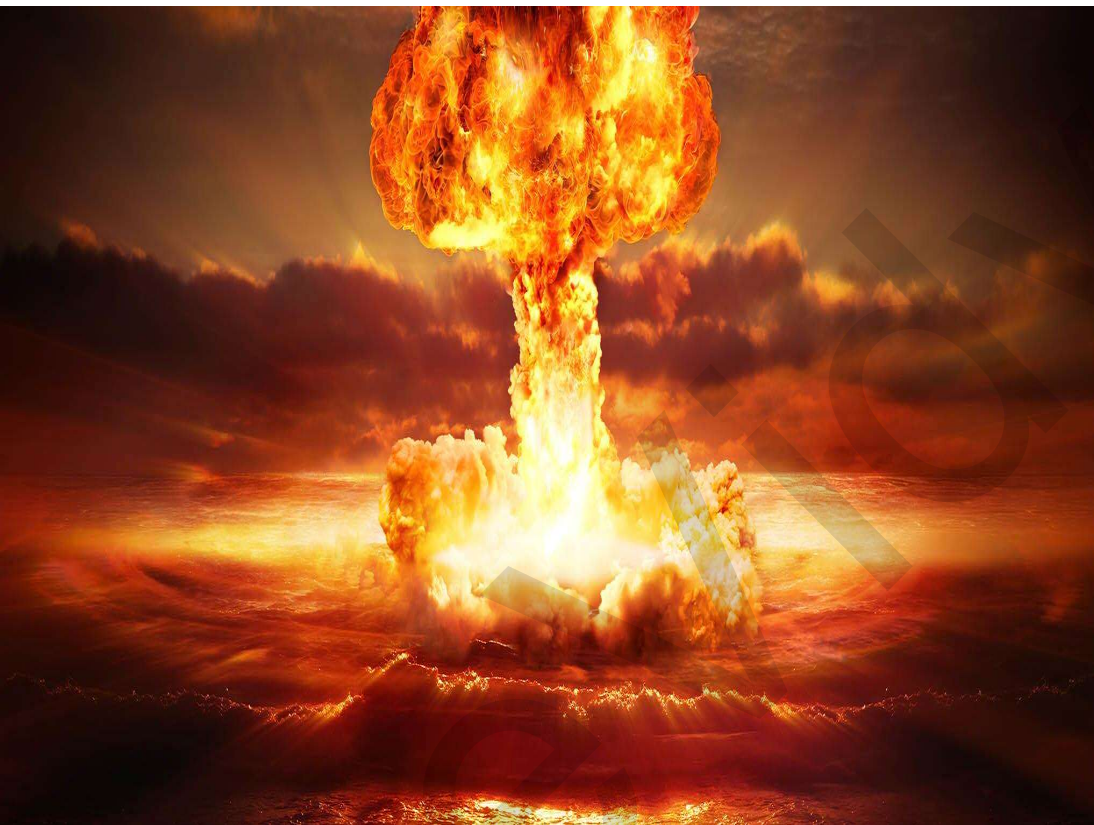


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NUCLEAR EXPLOSIONS



DEEP MINING



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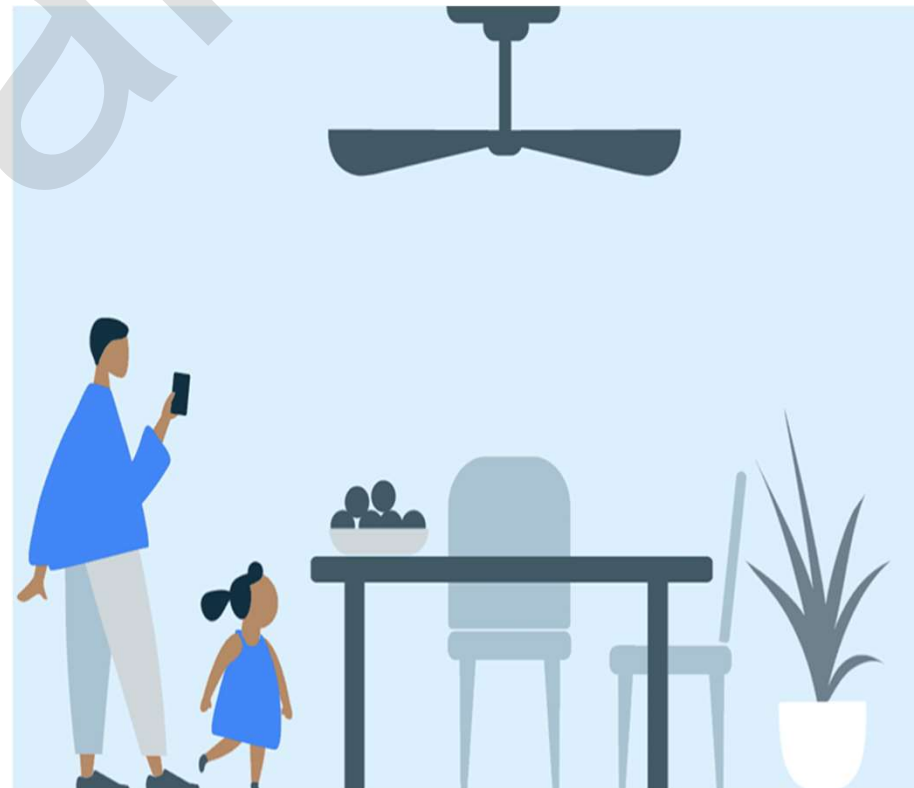
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EARTHQUAKE PREPARATION

❑ WHERE TO TAKE SHELTER:

- **SAFE SPOT** – Kitchen counter, table, desk.
- **STAY AWAY FROM** – Fire places, photo frames, windows etc.
- **BE PREPARED** – Spread awareness amongst everyone in the world.



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What to Do During an Earthquake



Don't Panic



Drop



Take Cover



Hold On



Don't Take Elevators



Protect Your Head



Stay Away from Windows &
Anything That Can Fall



Turn Off Gas & Electricity

PROTECTION

AGAINST

EARTHQUAKE

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MAJOR LANDS FORMS

- ❑ **LANDSCAPE CONTINUOUSLY WORN UP BY TWO PROCESS.**
- **WEATHERING** – Breaking up of rocks on the earth surface.
- **EROSION** – Wearing away of the landscape by different agents like water, wind etc.

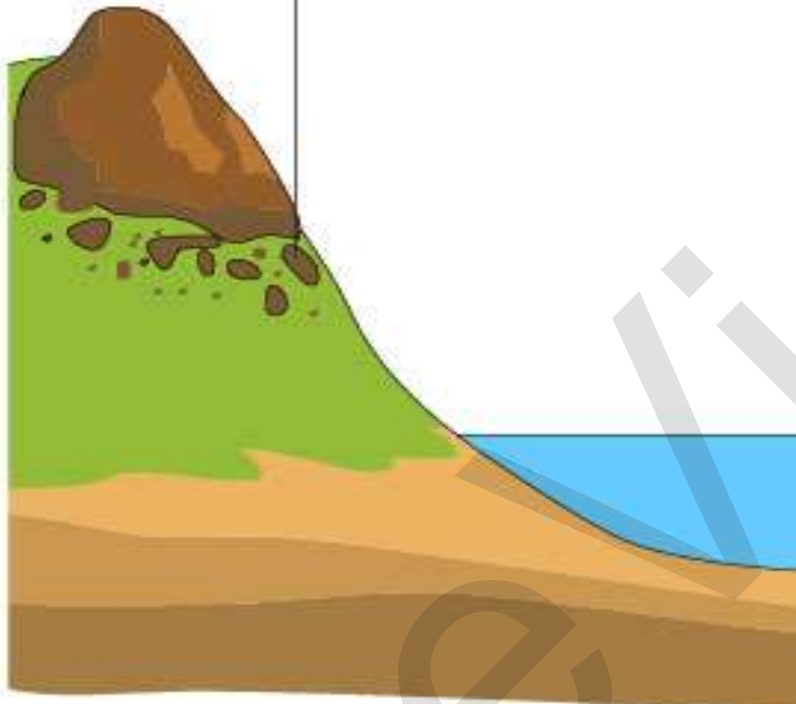
LANDSCAPE



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Weathering causes the rock to break down



WEATHERING

EROSION

Erosion and transport moves the sediments downhill to another place



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DIFFERENT LANDSCAPE

- IT TAKES AWAY THE MATERIAL ON THE OTHER LANDSCAPE AND GET DEPOSITED THERE CAUSING DIFFERENT LANDSCAPE OR SURFACE ON THE EARTH.



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WORK OF A RIVER

- Water erodes landscape.
- When a river jumps from a steep rocks it creates a **WATERFALL**.
- When a river enters a plain and turbs forming a large bend it is called as **MEANDERS**.



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WATERFALL



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MEANDERS



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❑ **OX BOW LAKE** – The meanders loop cuts off from the river and forms a cut off lake called as ox bow lake.

❑ **FLOOD PLAIN** – When the river overflows its banks it is called as flooding. it deposits layers of fine soil and sediments on the banks that leads to the formation of flat fertile floodplain.



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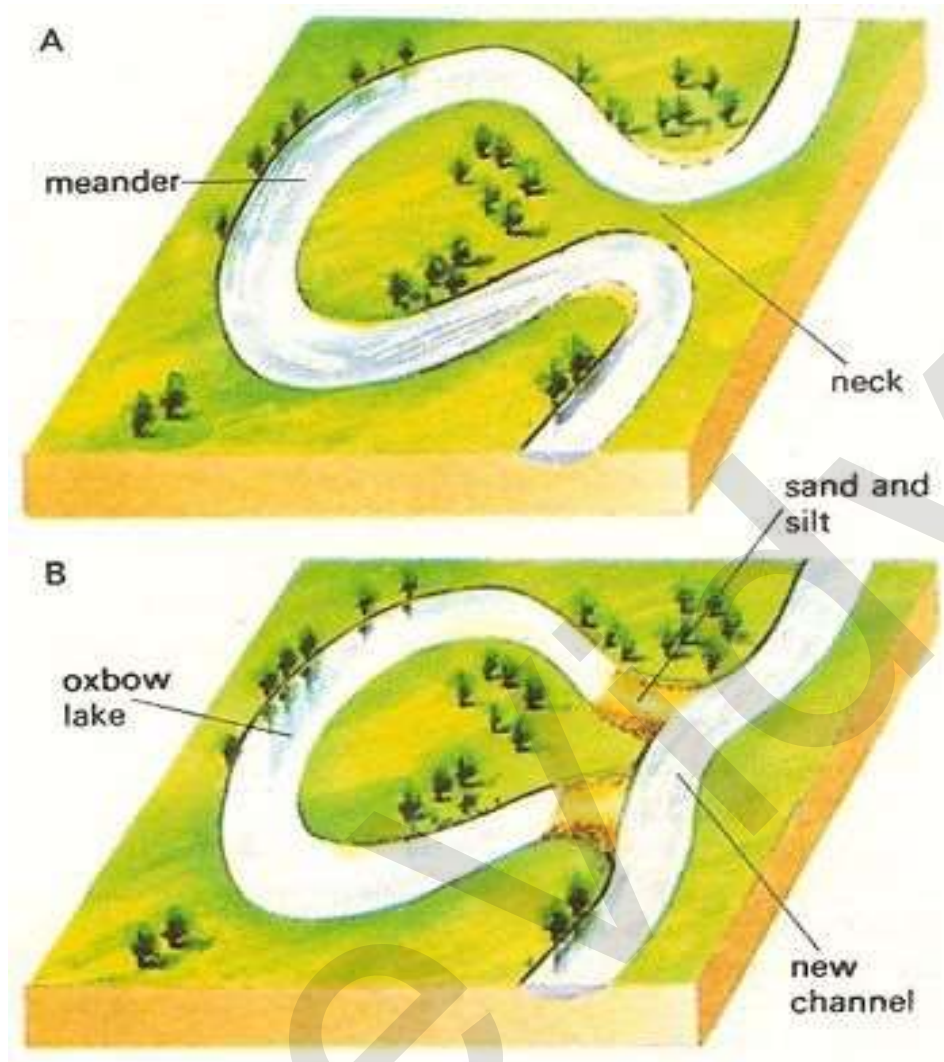
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DIAGRAM

OF

OX BOW LAKE

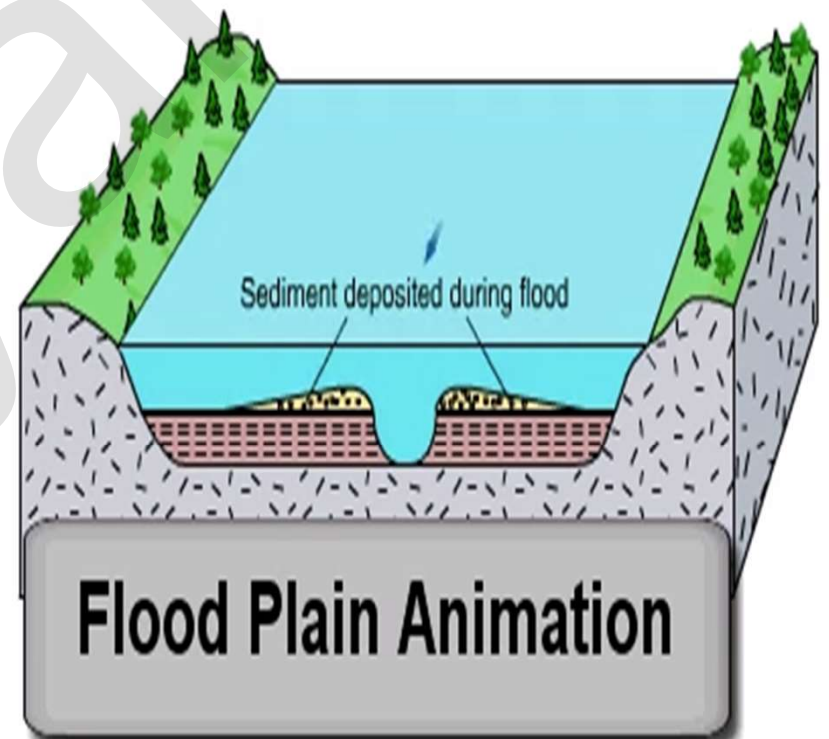
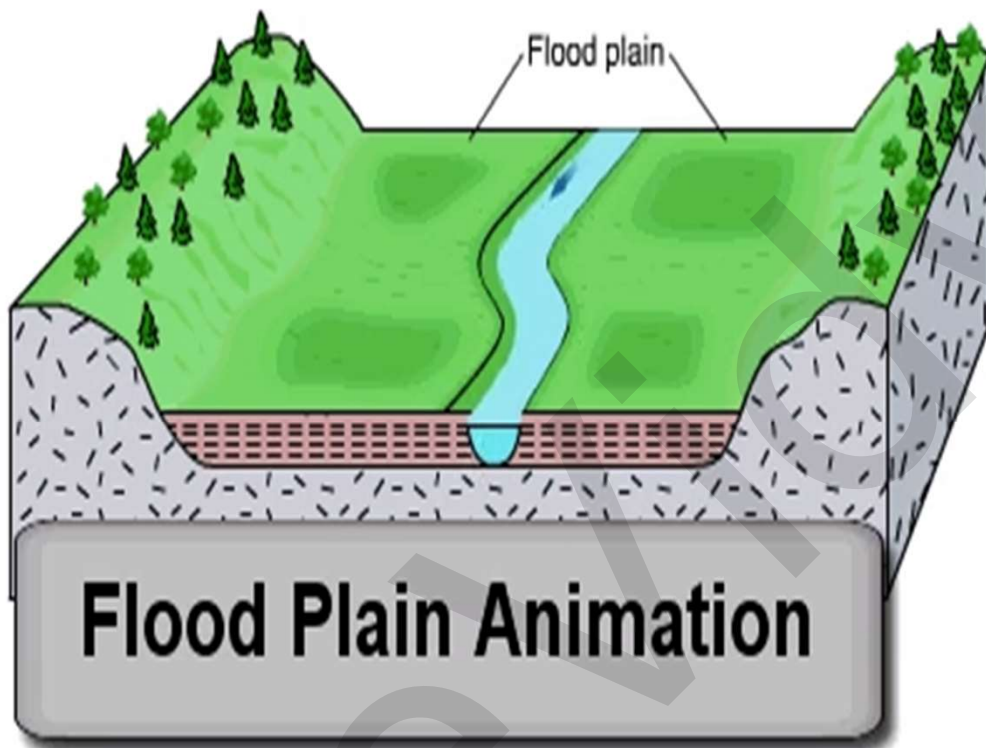


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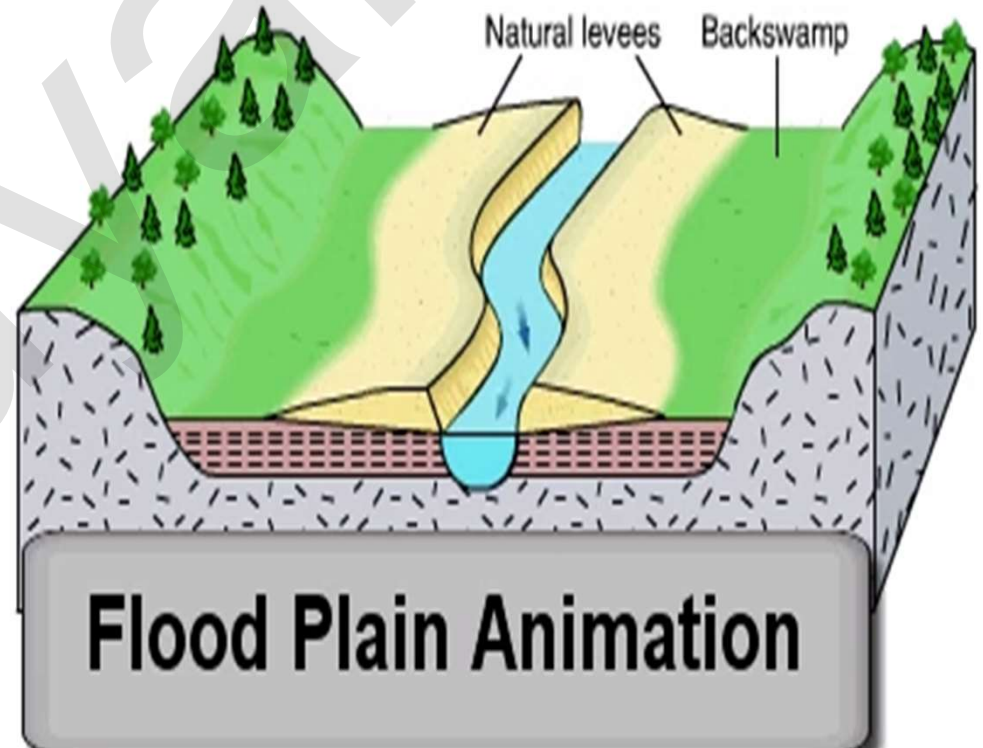
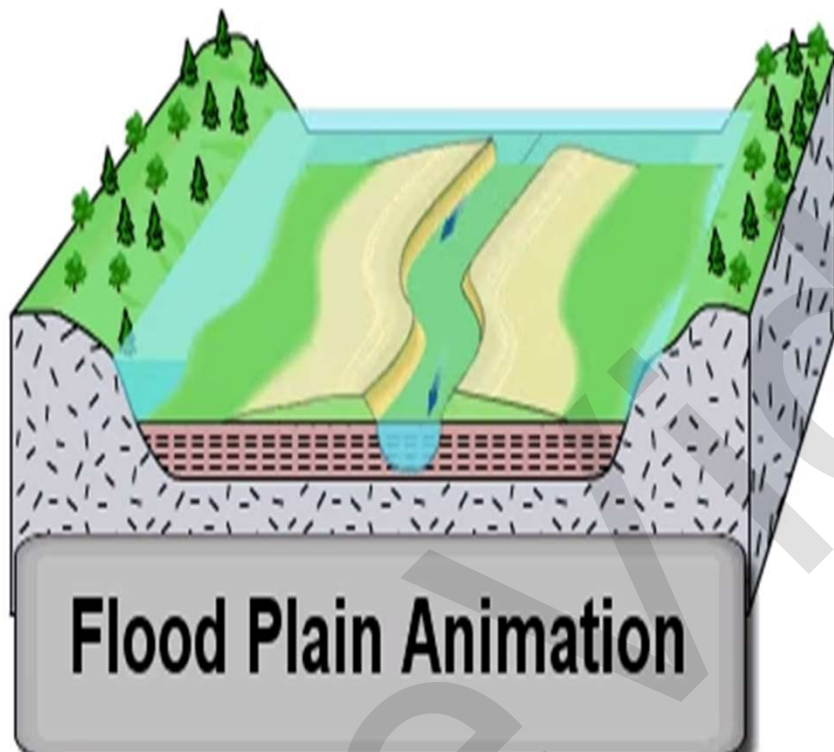
PROCESS OF FLOODPLAIN

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LEVEES

- THE RAISED BANKS ARE CALLED LEVEES.



DELTA

- RIVER BEGINS TO BREAK UP INTO A NUMBER OF STREAMS CALLED DISTRIBUTARIES. THE RIVER BECOMES SO SLOW THAT IT BEGINS TO DEPOSIT ITS LOAD. THE COLLECTION OF SEDIMENTS FROM ALL THE MOUTHS FORMS A DELTA.



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FORMATION OF DELTA



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WORK OF SEA WAVES

- ❑ **SEA CAVES** – Sea waves continuously strike at rocks. Cracks develop over a time they become larger and wider. thus hollow like caves are formed on the rocks.
- ❑ **SEA ARCHES** – Cavities become wider and larger only the roof of the caves remain.



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SEA CAVES



SEA ARCHES



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SEA STACKS

- **STACKS** – Further erosion breaks the roof and walls like structures left. these walls are called stacks.
- **SEA CLIFFS** – The steep rocks rising vertically on the water.
- **BEACHES** – Sediments accumulate across sea shores.



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SEA CLIFFS



BEACHES



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WORK OF ICE

- ❑ THEY ARE RIVER OF ICE THAT TOO ERODE THE LANDSCAPE BY BULLDOZING SOIL AND STONES.
- ❑ GLACIERS MAKE DEEP HOLLOWES AND WHEN THE ICE MELTS, THEY GET FILLED UP WITH WATER AND BECOME BEAUTIFUL LAKE.



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RIVER OF ICE



LAKES OF GLACIER



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➤ **GLACIER MORAINES –**

Materials carried by the glaciers such as rocks big and small, sand and silt gets deposits. These deposits form **GLACIER MORAINES**.



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WORK OF WIND

❑ **THE REASON BEHIND EROSION AND DEPOSITION IS WIND.**

EROSION

- **MUSHROOM ROCKS** – In desserts you can see rocks in the shape of a mushrooms.
- **SAND DUNES** – The sand falls and gets deposited in low hill – like structures.



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MUSHROOM ROCK



SAND DUNES

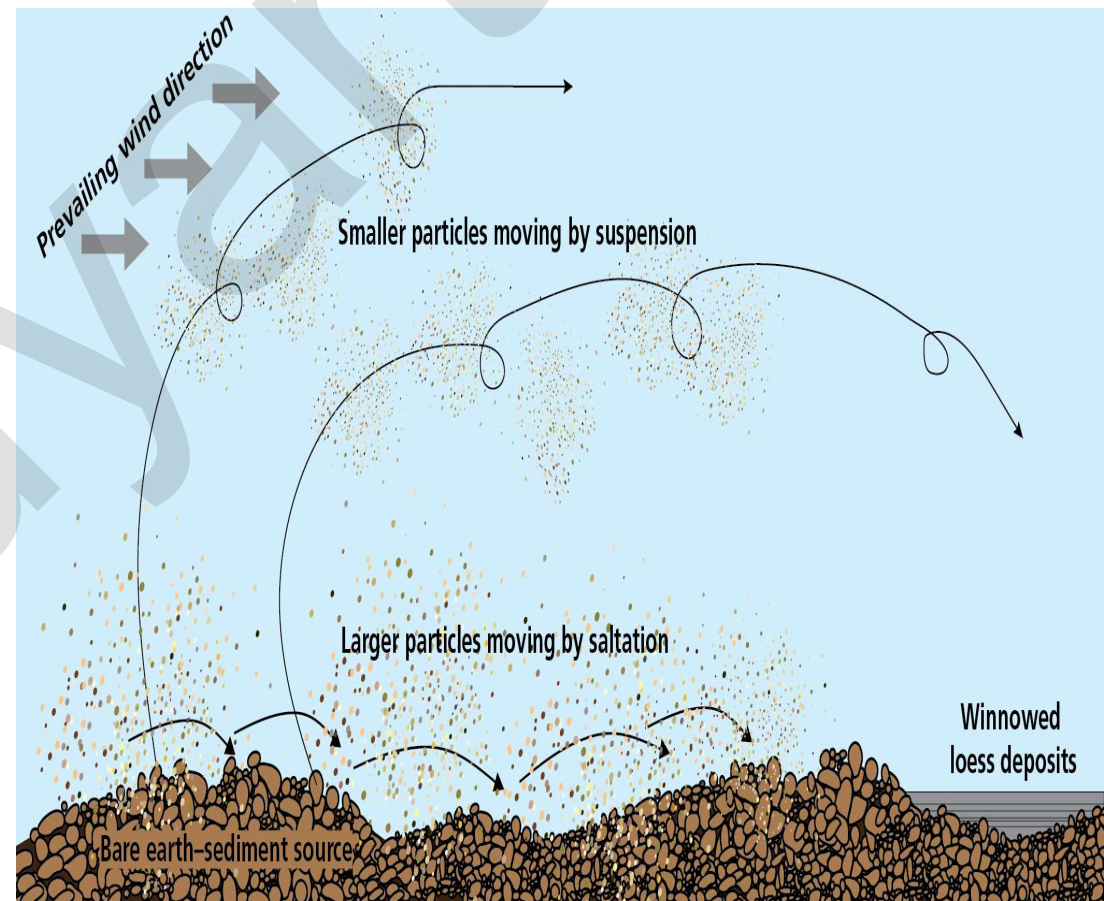


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LOESS – (fine and light sand)
The wind can carry it over a very long distance. Such sand is deposited in a large areas it is called **LOESS**
EXAMPLE – CHINA.



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LOESS

OF

CHINA

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