

CLASS VII CHAPTER 2 INSIDE THE EARTH (NCERT)

www.evidyarthi.in

TOPICS:



➤ INTRODUCTION



➤ INTERIOR OF THE EARTH



➤ ROCKS AND MINERALS



<https://www.evidyarthi.in>

CLASS VII CHAPTER 2 INSIDE THE EARTH (NCERT)

www.evidyarthi.in

INTRODUCTION

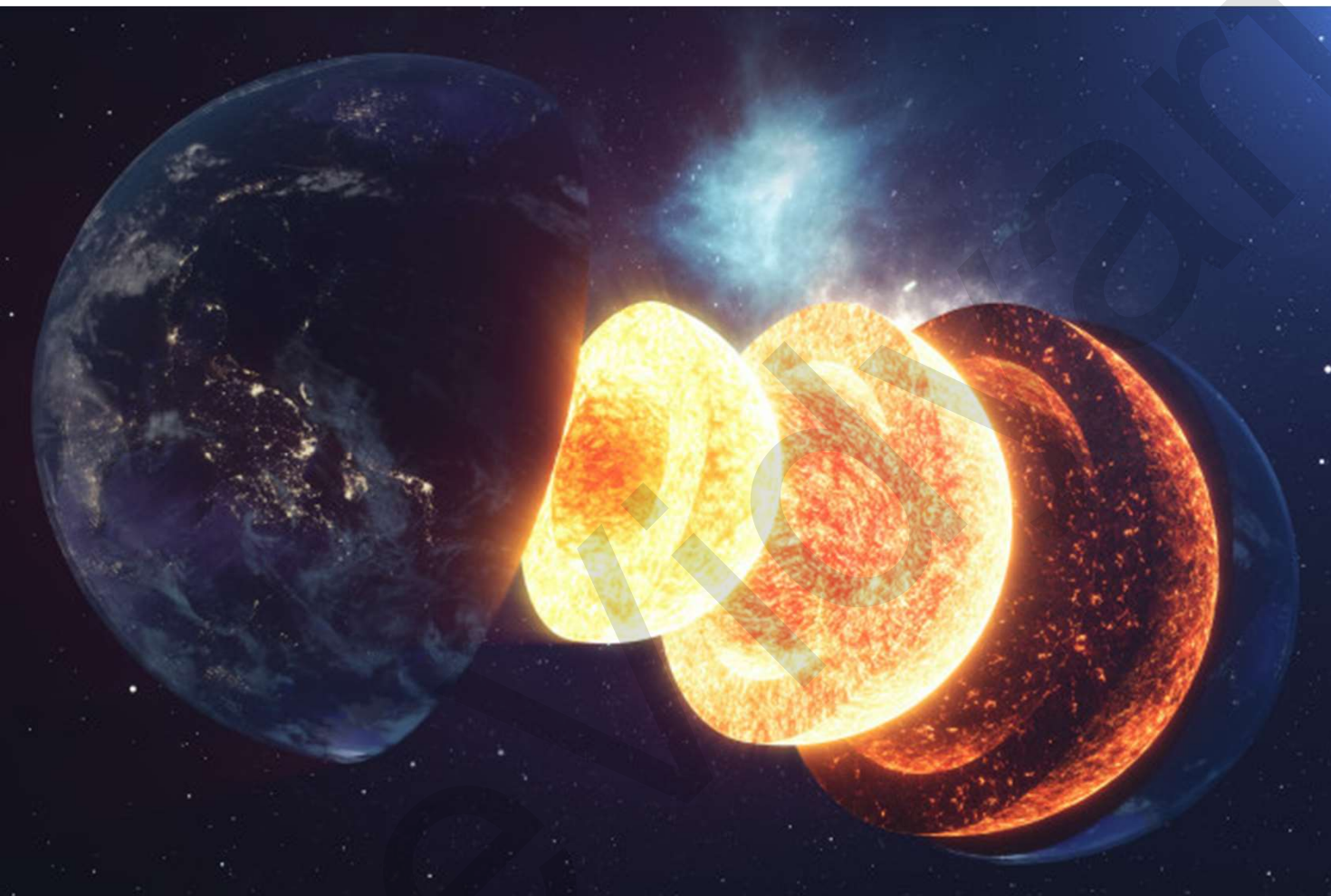
- EARTH IS OUR HOMELAND WITH CONSTANT CHANGES IN BOTH INSIDE AND OUTSIDE OF IT.
- HAVE YOU EVER WONDER WHAT LIES INSIDE THE EARTH.

OUTER PART



CLASS VII CHAPTER 2 INSIDE THE EARTH (NCERT)

www.evidyarthi.in



CRUST

MANTLE

OUTER CORE

INNER CORE

CLASS VII CHAPTER 2 INSIDE THE EARTH (NCERT)

www.evidyarthi.in

INTERIOR OF THE EARTH

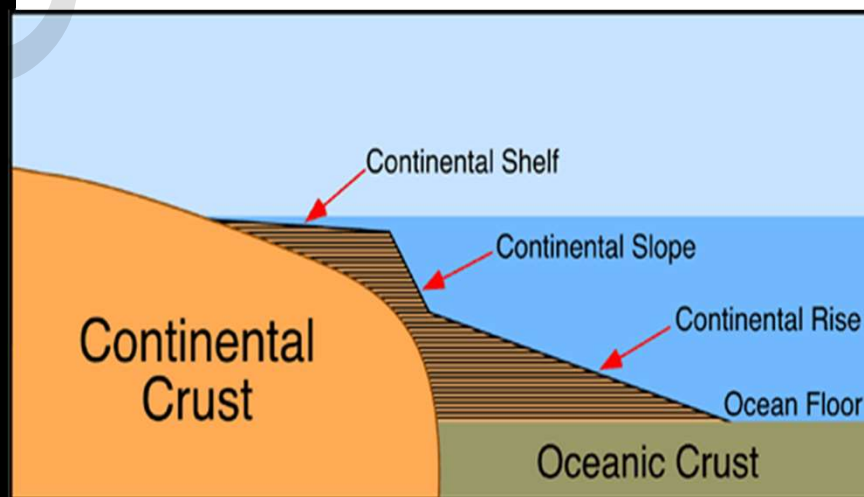
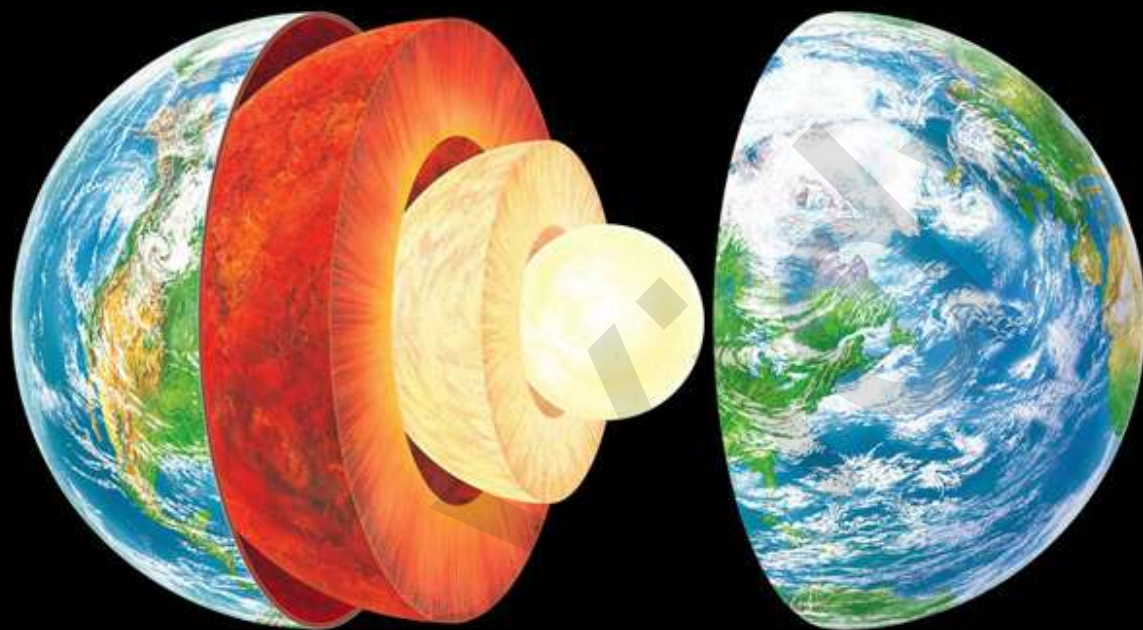
- ❖ **EARTH IS MADE UP OF SEVERAL CONCENTRIC LAYERS.**
- **CRUST** – topmost layer of the earth (thinnest)
- **CONTINENTAL CRUST**– layer of igneous, sedimentary and metamorphic rocks that forms the land surface.



CLASS VII CHAPTER 2 INSIDE THE EARTH (NCERT)

www.evidyarthi.in

EARTH CRUST



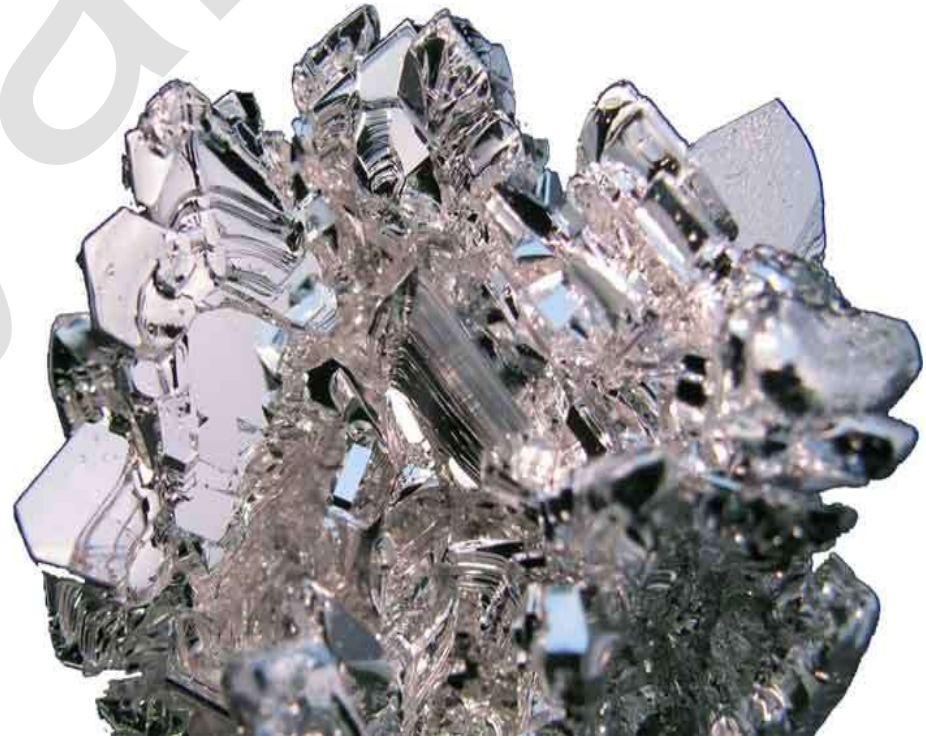
<https://www.evidyarthi.in>

CLASS VII CHAPTER 2 INSIDE THE EARTH (NCERT)

www.evidyarthi.in

- **MAIN MINERALS** – alumina and silica thus called sial.
- **OCEANIC CRUST**– made up of silica and magnesium thus called sima.
- **MANTLE** – beneath the crust is mantle which also the innermost layer of the earth, made up of with very high temperature.

MAGNESIUM



CLASS VII CHAPTER 2 INSIDE THE EARTH (NCERT)

www.evidyarthi.in

SILICA



ALUMINA

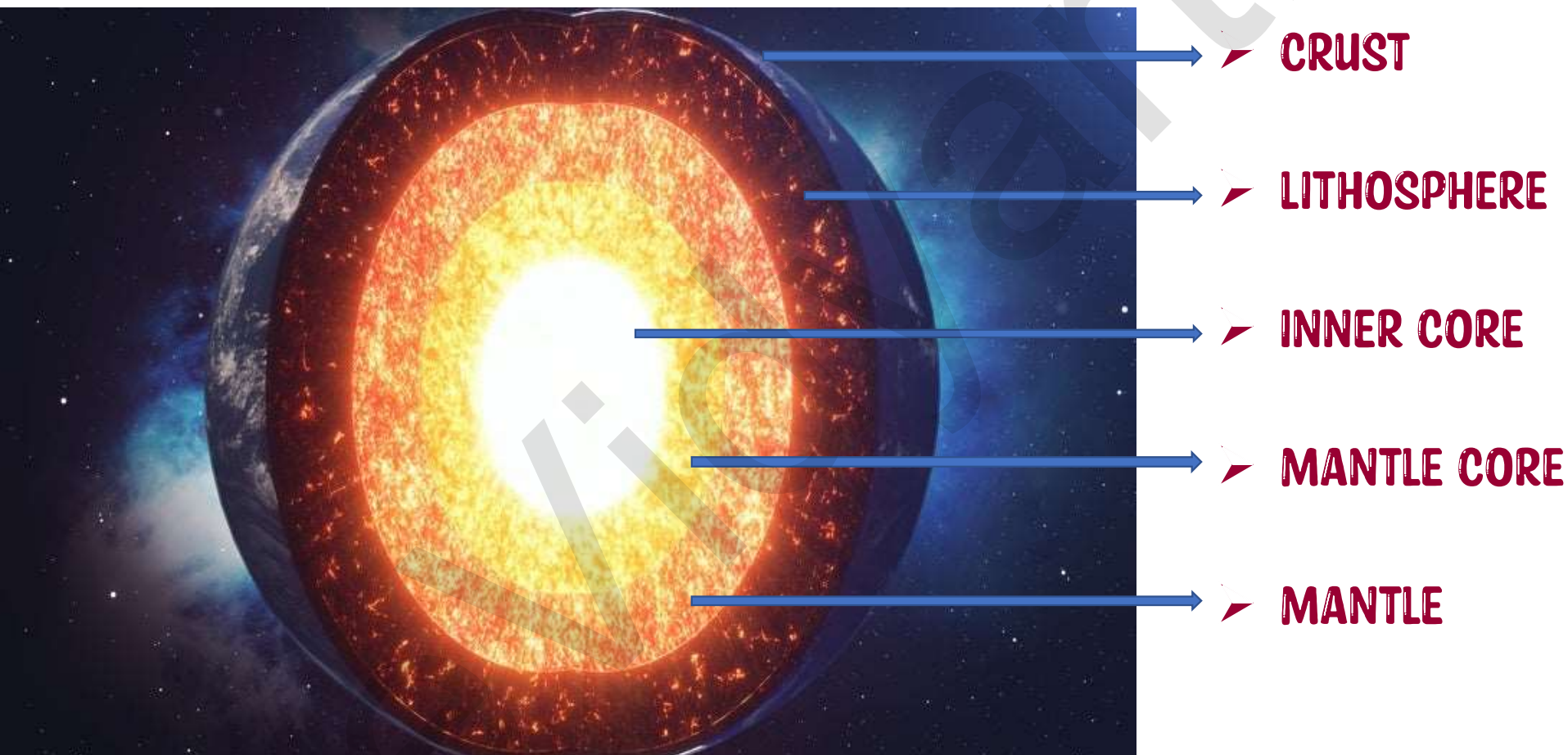


<https://www.evidyarthi.in>

CLASS VII CHAPTER 2 INSIDE THE EARTH (NCERT)

www.evidyarthi.in

MANTLE



<https://www.evidyarthi.in>

CLASS VII CHAPTER 2 INSIDE THE EARTH (NCERT)

www.evidyarthi.in

ROCKS AND MINERALS

- EARTH'S CRUST IS MADE UP OF VARIOUS TYPES OF ROCKS WITH SIZE, COLOR, TEXTURE, NATURE MINERAL MATTER THAT MAKES UP THE EARTH CRUST CALLED AS ROCKS.

IGNEOUS ROCKS

SEDIMENTARY ROCKS

METAMORPHIC ROCKS



CLASS VII CHAPTER 2 INSIDE THE EARTH (NCERT)

www.evidyarthi.in



IGNEOUS ROCK

**SEDIMENTARY
ROCK**



**METAMORPHIC
ROCK**



<https://www.evidyarthi.in>

CLASS VII CHAPTER 2 INSIDE THE EARTH (NCERT)

www.evidyarthi.in

IGNEOUS ROCK – WHEN MATTER MAGMA COOLS ITS SOLID FORM IS CALLED IGNEOUS I.E. PRIMARY ROCKS. IT HAS TWO TYPES – INTRUSIVE ROCKS AND EXTRUSIVE ROCKS.

❑ **EXTRUSIVE** – when the molten lava comes on the surface and becomes rapidly cool and solidifies on the surface is called extrusive rocks

❑ **EXAMPLE**– basalt



CLASS VII CHAPTER 2 INSIDE THE EARTH (NCERT)

www.evidyarthi.in

BASALT



DECCAN PLATEAU



<https://www.evidyarthi.in>

CLASS VII CHAPTER 2 INSIDE THE EARTH (NCERT)

www.evidyarthi.in

INTRUSIVE – sometimes magma takes time to cool (gets cool deep down the earth surface) called intrusive rocks.

EXAMPLE- granite

SEDIMENTARY – ROCKS HIT, CRACKS, ROLL DOWN WITH EACH OTHER AND BROKEN DOWN INTO FRAGMENTS. THIS SMALL PARTICLES ARE CALLED SEDIMENTS.



CLASS VII CHAPTER 2 INSIDE THE EARTH (NCERT)

www.evidyarthi.in

INTRUSIVE ROCK – GRANITE



<https://www.evidyarthi.in>

CLASS VII CHAPTER 2 INSIDE THE EARTH (NCERT)

www.evidyarthi.in

BREAKS INTO FRAGMENTS



FORMS A LAYER



<https://www.evidyarthi.in>

CLASS VII CHAPTER 2 INSIDE THE EARTH (NCERT)

www.evidyarthi.in

- These loose sediments are transferred and deposits by wind and water and are compressed and hardened to form a layer are called sedimentary rocks.

SAND STONE

- **MADE OF GRAINS OF SAND ALSO CONTAINS FOSSILS OF PLANTS AND ANIMAL ETC.**



CLASS VII CHAPTER 2 INSIDE THE EARTH (NCERT)

www.evidyarthi.in

METAMORPHIC ROCKS – Igneous and sedimentary can change into metamorphic under great pressure and heat.

EXAMPLE – clay into slate and limestone into marble.

USES OF ROCKS – in games (gitti 5 stones, pitthoo-7 stones, stapu/kit kit)

MAIN USES – buildings, houses etc.



<https://www.evidyarthi.in>

CLASS VII CHAPTER 2 INSIDE THE EARTH (NCERT)

www.evidyarthi.in



➡ **PITTHOO**



➡ **7 STONES**



➡ **HOP SCOTCH**

<https://www.evidyarthi.in>

CLASS VII CHAPTER 2 INSIDE THE EARTH (NCERT)

www.evidyarthi.in

ROCK CYCLE

MOLTEN MAGMA COOLS



SOLIDIFIES AND BECOMES IGNEOUS



WHEN IGNEOUS BROKE



ARE TRANSPORTED AND DEPOSITED

CLASS VII CHAPTER 2 INSIDE THE EARTH (NCERT)

www.evidyarthi.in

WHEN BOTH IGN. AND SEDI. COMES
UNDER HEAT AND PRESSURE



IT FORMS METAMORPHIC



TO FORM SEDIMENTARY



AND CYCLES CONTINUES

<https://www.evidyarthi.in>

CLASS VII CHAPTER 2 INSIDE THE EARTH (NCERT)

www.evidyarthi.in

MINERALS

- Rocks are made up of minerals.
- Minerals are made up of chemical composition and physical properties.

USES OF MINERALS

- **USED AS FUELS SUCH AS NATURAL GAS, PETROLEUM, COAL.**

CLASS VII CHAPTER 2 INSIDE THE EARTH (NCERT)

www.evidyarthi.in



- **PETROLEUM**
- **COAL**
- **MINERAL OIL**
- **NATURAL GAS**

CLASS VII CHAPTER 2 INSIDE THE EARTH (NCERT)

www.evidyarthi.in

USES IN INDUSTRIES

- **IRON, ALUMINUM, GOLD, URANIUM ETC.**

USED IN MEDICINES

- **COPPER, CALCIUM, SODIUM ETC.**

USES IN FERTILIZERS

- **NITROGEN, POTASSIUM, PHOSPHATE.**

