

Earth's Interior Worksheet A Journey to the Centre of the Earth (p. 9)

Q1) What happens to the temperature as you travel down towards the centre of the Earth?

Ans As you head toward the centre of the Earth, temperatures increase exponentially. As you move further and further away from the core, the crust cools to much colder temperatures all the way up to the surface. The Earth gets hotter as you move towards the centre.

Q2) What happens to the pressure as you travel down the closer to the Earth's surface, the greater the weight (or force) of the atmosphere because air near the surface has all air above it pushing down on it. As an airplane travels higher into the atmosphere, air pressure decreases. The higher an airplane goes, the less dense the atmosphere becomes.

Q3) Name the three main layers that make up the Earth's interior.

Ans The Crust, Mantle and the Core.

Crust (Ch-10)

Q6) What is Earth's crust made of?

Ans) ~~It is made up of many different types of rocks.~~
Magnesium, aluminium and silicon.

The crust is made up of 2 layers. The upper crust that includes the continents. The lower crust includes oceans. Silica, Iron and Magnesium, called ^{sim}st

Q5) The Earth's crust includes both the ocean floor and dry land. (True or False)

Ans) True

Q4) Name the two types of Earth's crust.
Ans) Upper crust including continents and lower crust that includes the oceans.

Q7) Why do you think the ocean crust contains rocks that are more dense than the rocks found on land?

Ans) Because the crust varies in thickness from just around 5-10 km under the oceans, to around 35-70 km under the continents.

Q8) Mantle (Ch-10-11)
What does the layer of mantle consist of?

Ans It is a mass of mixed minerals such as ^{silica, iron,} magnesium, aluminium and silicon.

Q10) What makes up the lithosphere?

Ans ~~The~~ The topmost layer of the Earth is the lithosphere. It ~~is~~ consists of the crust and outer part of the upper mantle. It is rigid and brittle.

Q11) Right below the lithosphere is a layer of mantle that is made of softer rock called the asthenosphere.

Q12) ~~Q12) How deep is the mantle?~~

Ans ~~Q12)~~ Lower mantle - 10-300 kms, Upper mantle - 300-500 kms

Core (p-11)

Q13) The Earth's core is made up of 2 parts. What are they?
Ans Upper core and the ~~the~~ Inner core.

Q14) Which two metals make up both parts of the core?

Ans The prominent minerals here are Nickel and Iron.

Exploring Earth's Interior (P.13)
Label the layers of the Earth on the drawing below with the words given. Colour each layer a different colour.

