

READING ACTIVITIES (Answer key)

After reading the text, copy and answer the following questions into your notebook:

Remember: you must make complete sentences.

1.1. Answer these questions:

- a. What is the origin of the Earth's internal energy?

The origin of the Earth's internal heat is the heat generated when the Earth was formed and that remains inside it.

- b. How were the layers of the Earth formed?

When the collisions of meteorites decreased, the heavy materials sunk to the center of the planet, forming the **core**, while, the surface light materials started to solidify forming the **crust**.

- c. Why can we explain that the inner core is solid while the outer core, colder, is molten?

The inner core is solid due to the tremendously high **pressure** in the center at the Earth. This pressure makes impossible to melt the materials of the inner core. To get it the temperature at this depth would have to be much higher.

However, the outer core is melted in spite of the fact that the temperature is lower but the pressure is also lower, so that this temperature is enough to melt the materials.

1.2. Complete the sketch with the following words: *light, high, cold, heavy, hot, low*. What does it represent?

It represents the **convection currents** within the mantle.

