



How do scientists know that the Earth's core is made up of metal? (CSS MPT 2024)

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The density of the surface layer of Earth is greater than its total density

None of these

Show Answer...

Correct Answer: (The density of the surface layer of Earth is much less than its average density)

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- A. The density of the surface layer of Earth is much less than its average density
- B. The Earth's rotation speed indicates its core structure
- C. The density of the surface layer of Earth is greater than its total density
- D. None of these

Explanation:

The correct answer is A. Scientists infer that the Earth's core is made up of metal because the density of the surface layer (crust and mantle) is much less than the average density of the entire Earth. This suggests that there must be a denser material (metal) in the Earth's core to account for the overall average density.