

EARTH LAYERS- MOVIES 1,2,+3

NAME _____ HR _____

MOVIE-WHY DOES THE EARTH HAVE LAYERS? [9 MIN]

/ 15 POINTS

<https://www.youtube.com/watch?v=WwiiOjyfvAU&feature=youtu.be>

1. Heavy materials like _____ and nickel work their way down to the core.
2. The iron in our inner core is likely a _____ not liquid
3. The outer core is likely a liquid because there is less _____.
4. Deep metallic convection currents create a _____ field that shields Earth from solar wind.

MOVIE-THE MYSTERY OF EARTH'S CORE EXPLAINED [4 MIN]

<https://www.youtube.com/watch?v=XXTEWQdu3aE&feature=youtu.be>

5. The deepest we have ever been is 2.4 _____ into the Earth.
6. Crust is the top _____ miles
7. Inner and outer cores are made of superheated rock which flows really _____ like asphalt.
8. The moon sized inner core is _____ in an easterly direction.
9. The outer liquid core is rotating in a _____ direction.
10. The _____ poles have swapped many times in the past.
11. A weakened magnetosphere wouldn't block cosmic _____ as easily.

MOVIE-EARTH'S MAGNETIC SHIELD [3 MIN]

<https://www.youtube.com/watch?v=URN-XyZD2vQ>

12. Our sun is blasting huge amounts of _____ plasma out into space.
13. Our planet has a secret weapon: a strong _____ field.
14. Positive and negatively charged particles hit the magnetosphere, but most are _____ around the Earth.
15. When charged particles collide with nitrogen and oxygen molecules they create beautiful _____.