

Name _____

Understanding Magnetism

1. What would happen if there was NO magnetism?
2. What did all lodestones do if allowed to rotate freely?
3. What could be done to a hot piece of iron to magnetize it?
4. What (where) is the origin of all magnets?
5. What does the Earth's magnetic field protect us from?
6. What kind of matter makes up the Northern Lights?
7. How long has the Earth had the same magnetic alignment?
8. Beside Death Valley, Where are magnetic reversals studied?
9. In how many years might the Earth lose its magnetic field if the current weakening trend continues?
10. What do pigeons use to guide them home?
11. What other animals, besides pigeons and lobsters, use magnetic fields.
12. What are the smallest organisms that respond to magnetic fields?
13. Do human brains have magnetite?
14. How much stronger is the magnetic field of an MRI than the Earth's?
15. Together with _____, magnetism ignited the machine age.
16. An electric current generates a _____ field.
17. What do movie cameras and ear phones have in them?
18. What kind of waves transmit data all around the world?
19. Light has both _____ and _____ in its waves.
20. Is aluminum magnetic?
21. How high is the Maglev train lifted off the track?

22. How fast will the Maglev train go?
23. Fusion changes a tiny amount of mass into an enormous amount of _____.
24. How hot will the gas be heated inside the Tokamak?
25. What kind of matter is formed in the Tokamak?
26. How many fundamental forces are in our Universe?
27. How many of the basic forces have been linked to each other?