



# 'The Inescapable Grip of Magnetism: How a Force Stronger than Gravity Became Trapped within Earth'

## Description

In the book "CHARGE: Why Does Gravity Rule?" by theoretical physicist Frank Close, he delves into the fundamental forces that shape our world, exploring the relationship between positive and negative charges and the impact on gravity. Magnetism, a tangible force, is a manifestation of electricity and plays a crucial role in our world. From the Earth's liquid core generating a magnetic field to the magnetic properties of rocks containing iron, magnetism is ever-present. The interaction between a bar magnet and iron filings demonstrates the magnetic force's behavior, showcasing its influence on Earth's magnetic poles. Legends of ancient Greece and discoveries in the Iron Age highlight humanity's long-standing knowledge of magnetism. Overall, magnetism has been essential for centuries, influencing our understanding of the world. This excerpt is from Close's book, "CHARGE: Why Does Gravity Rule?" published by Oxford University Press.

## Vocabulary List:

1. **Delves** // (verb): To investigate or explore deeply.
2. **Manifestation** // (noun): An event action or object that clearly shows or embodies something.
3. **Crucial** // (adjective): Extremely important or necessary.
4. **Interaction** // (noun): Communication or direct involvement with someone or something.
5. **Showcasing** // (verb): Displaying or exhibiting something to its full potential.
6. **Legends** // (noun): Traditional stories about famous or historical events or people.

## Vocabulary quizzes

### Multiple Choice ( Select the Correct answer for each question. )

1. What is the term for the act of demonstrating or showing something?

- Option: A. Interaction
- Option: B. Transparency
- Option: C. Manifestation
- Option: D. Equipped

2. Which word refers to stories handed down from earlier times often considered historical but unauthenticated?

- Option: A. Thriving



- Option: B. Legends
- Option: C. Discrepancies
- Option: D. Improvements

3. What term is used to describe a standard or point of reference for comparison?

- Option: A. Notable
- Option: B. Existence
- Option: C. Crucial
- Option: D. Benchmark

4. Which word indicates the ability to accomplish a job with a minimum expenditure of time and effort?

- Option: A. Bombards
- Option: B. Efficiency
- Option: C. Delves
- Option: D. Configuration

5. What does the term "debunked" mean?

- Option: A. Clarity
- Option: B. Improvements
- Option: C. Debunked
- Option: D. Orbiting

6. What term is used to describe the quality of being open and honest?

- Option: A. Obscurity
- Option: B. Transparency
- Option: C. Interaction
- Option: D. Existence

7. Which word describes something or someone worthy of attention or notice?

- Option: A. Equipped
- Option: B. Notable
- Option: C. Algorithm
- Option: D. Orbital

8. What term refers to laws designed to promote fair competition in the marketplace?

- Option: A. Antitrust
- Option: B. Configuration
- Option: C. Showcasing
- Option: D. Signals

9. Which word means to present or exhibit something to its best advantage?

- Option: A. Thriving
- Option: B. Showcasing



Option: C. Manifestation

Option: D. Interaction

10. What term is used to indicate making something better or more satisfactory?

Option: A. Tidally locked

Option: B. Improvements

Option: C. Groundbreaking

Option: D. Orbiting

**Gap-Fill ( Fill in the blanks with the correct word from the vocabulary list. )**

11. \_\_\_\_\_ between team members is vital for a project's success.

12. The moon is \_\_\_\_\_ around the Earth.

13. The scientist made a \_\_\_\_\_ discovery that changed the field of physics.

14. The new gadget has an \_\_\_\_\_ design that appeals to young consumers.

15. The same side of the moon is always \_\_\_\_\_ to the Earth.

16. The planet in the solar system \_\_\_\_\_ by solar radiation.

17. The planet's \_\_\_\_\_ for life is being investigated by scientists.

18. The team was fully \_\_\_\_\_ to handle any challenges that arose during the expedition.

19. Efficient network \_\_\_\_\_ is essential for smooth communication.

20. Could you please \_\_\_\_\_ your statement for better understanding?

**Matching Sentences ( Match each definition to the correct word from the vocabulary list. )**

21. The small business began after implementing the new marketing strategy.
22. The artist's work was in for years until a retrospective brought it back into the public eye.
23. The research paper into the effects of climate change on marine life.
24. The philosopher pondered the meaning of and its relation to time.



25. The IT specialist was responsible for the network of the entire office building.
26. The actor's most performance was in the critically acclaimed film.
27. The team was fully with all the necessary gear for the dangerous expedition.
28. The new sports car set a(n) for speed and performance in its class.
29. Meaningful between coworkers can improve office morale.
30. The engineer designed a new for faster data processing.

## Answer

**Multiple Choice:** 1. C. Manifestation 2. B. Legends 3. D. Benchmark 4. B. Efficiency 5. C. Debunked

6. B. Transparency 7. B. Notable 8. A. Antitrust 9. B. Showcasing 10. B. Improvements

**Gap-Fill:** 11. Interaction 12. Orbiting 13. Groundbreaking 14. Ultra-cool 15. Tidally locked 16. Bombards  
17. Habitability 18. Equipped 19. Configuration 20. Clarify

**Matching sentence:** 1. Thriving 2. Obscurity 3. Delves 4. Existence 5. Configuration 6. Notable 7. Equipped  
8. Benchmark 9. Interaction 10. Algorithm

## CATEGORY

1. Sci/Tech - LEVEL2

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