

Magnetism Quiz PDF

Magnetism Quiz PDF

Disclaimer: The magnetism quiz pdf was generated with the help of StudyBlaze AI. Please be aware that AI can make mistakes. Please consult your teacher if you're unsure about your solution or think there might have been a mistake. Or reach out directly to the StudyBlaze team at max@studyblaze.io.

Which part of the Earth acts like a giant magnet?
○ The atmosphere○ The core
The core
The mantle
The mantie
What happens when like poles of two magnets are brought close together?
○ They attract each other.
○ They repel each other.
They become demagnetized.
○ They neutralize each other.
Which of the following materials is typically magnetic?
○ Aluminum
○ Copper
○ Iron
○ Plastic
What is the primary characteristic of a permanent magnet?
It loses its magnetism when heated.
O It requires an electric current to function.
It retains its magnetism without external influence.
It only works in the presence of another magnet.
What is the angle difference between magnetic north and true north called?
Magnetic inclination
Magnetic declination

Create hundreds of practice and test experiences based on the latest learning science.



Magnetic deviation
Magnetic resonance
Who is credited with formulating the laws of electromagnetism?
○ Isaac Newton
○ Albert Einstein
○ James Clerk Maxwell
○ Nikola Tesla
Discuss the historical discovery of lodestones and their impact on the understanding of magnetism.
Discuss the historical discovery of lodestones and their impact on the understanding of magnetism.
Which of the following are properties of magnetic fields? (Select all that apply)
They are visible to the naked eye.
They exert forces on other magnets.
They can be created by electric currents.
They only exist in metals.
Which law states that a changing magnetic field induces an electric current?
○ Ampère's Law
Faraday's Law of Induction
Ohm's Law
Coulomb's Law
Which of the following are types of magnets? (Select all that apply)
Permanent magnets
☐ Temporary magnets
□ Electromagnete
Electromagnets

Create hundreds of practice and test experiences based on the latest learning science.



What is the primary use of an MRI machine in medicine?	
 ○ To measure blood pressure ○ To create images of the body's internal structures ○ To monitor heart rate ○ To perform blood tests 	
Explain how a magnetic field is generated around a wire carrying an electric current.	
	1,
Describe the principle of operation of an electric motor using magnetism.	
	//
Discuss the significance of Earth's magnetic field for life on the planet.	

How does Faraday's Law of Induction apply to the generation of electricity in power plants?



Explain the difference between magnetic declination and magnetic inclination.
Milest are the effects of Femilia magnetic field? (Calact all that apply)
What are the effects of Earth's magnetic field? (Select all that apply)
It protects the planet from solar winds.
It aligns compasses to magnetic north.
☐ It causes earthquakes.
☐ It affects animal migration.
Which of the following scientists contributed to the understanding of magnetism? (Select all that
apply)
☐ Michael Faraday
☐ James Clerk Maxwell
Albert Einstein
Galileo Galilei
Which of the following statements about electromagnets are true? (Select all that apply)
They require an electric current to function.
They are always stronger than permanent magnets.
Their magnetic field can be turned on and off.
They cannot be used in electronic devices.

What are some applications of magnetism in technology? (Select all that apply)



☐ Magnetic storage in hard drives	
☐ MRI machines in medicine	
☐ Solar panels	
☐ Electric motors	

Create hundreds of practice and test experiences based on the latest learning science.