

# Chapter one physical world Printable PDF

## Chapter One Physical World

Understanding the physical world forms the foundation of many scientific and philosophical explorations. From the vastness of the universe to the intricacies of atomic particles, the physical world encompasses all matter and energy that exist around us. In this chapter, we delve into the fundamental aspects that define the physical universe, exploring its components, laws, and significance in our daily lives.

## Introduction to the Physical World

The physical world refers to everything that has a tangible presence and can be observed, measured, or experienced through the senses or scientific instruments. It includes natural phenomena, physical objects, forces, and the fundamental laws governing their interactions. This domain is the primary focus of disciplines such as physics, chemistry, geology, and astronomy.

Understanding the physical world is crucial because it helps us comprehend how the universe functions, predict natural events, develop technological innovations, and appreciate the interconnectedness of all things.

## Components of the Physical World

The physical world is composed of various elements and structures, each playing a vital role in its overall functioning.

### 1. Matter

Matter constitutes all physical substances that occupy space and have mass. It exists in different states:

- **Solid:** Definite shape and volume (e.g., rocks, metals).
- **Liquid:** Definite volume but takes the shape of its container (e.g., water, oil).
- **Gas:** No fixed shape or volume (e.g., air, steam).
- **Plasma:** Ionized gases found in stars and neon lights.

### 2. Energy

Energy is the capacity to do work and is present in various forms:

- Mechanical energy
- Thermal energy
- Electrical energy
- Chemical energy
- Nuclear energy
- Radiant energy (light)

### 3. Forces and Interactions

Forces are fundamental in shaping the physical universe:

- **Gravity:** The attractive force between masses.
- **Electromagnetic force:** Governs interactions between charged particles.
- **Strong nuclear force:** Holds atomic nuclei together.
- **Weak nuclear force:** Responsible for certain types of radioactive decay.

## Fundamental Laws Governing the Physical World

The behavior of matter and energy in the physical world is described by fundamental laws and principles.

### 1. Newton's Laws of Motion

These laws explain how objects move and interact:

- **First Law:** An object remains at rest or in uniform motion unless acted upon by an external force.
- **Second Law:** Force equals mass times acceleration ( $F=ma$ ).
- **Third Law:** Every action has an equal and opposite reaction.

### 2. Law of Conservation of Energy

Energy cannot be created or destroyed; it merely transforms from one form to another.

### 3. Laws of Thermodynamics

These laws govern heat transfer and energy efficiency:

- Energy tends to disperse or spread out (Second Law).
- Absolute zero temperature is unattainable (Third Law).

## 4. Law of Universal Gravitation

Every mass in the universe attracts every other mass with a force proportional to their masses and inversely proportional to the square of the distance between them.

# Natural Phenomena in the Physical World

The physical universe is filled with phenomena that range from the predictable to the complex.

## 1. Celestial Events

- Stars, planets, and galaxies.
- Solar and lunar eclipses.
- Astronomical phenomena like meteoroids, comets, and black holes.

## 2. Geological Processes

- Plate tectonics and earthquakes.
- Volcanic eruptions.
- Formation of mountains and valleys.

## 3. Atmospheric Phenomena

- Weather patterns and storms.
- Rainbows and auroras.
- Climate variations.

# Importance of Studying the Physical World

Understanding the physical world offers numerous benefits:

- **Technological Advancement:** Innovations like electricity, vehicles, and computers rely on principles of physics and chemistry.
- **Environmental Awareness:** Knowledge of natural processes helps in conservation and managing natural disasters.
- **Scientific Inquiry:** Provides a basis for exploring questions about the universe and our place within it.
- **Daily Life:** From cooking to transportation, understanding physical laws improves safety and efficiency.

## Interaction Between Humans and the Physical World

Humans have always interacted with their environment, modifying and adapting to it:

- Agriculture and land use.
- Construction and engineering projects.
- Use of natural resources for energy, manufacturing, and consumption.
- Technological innovations that harness natural forces like wind, solar, and hydro power.

However, these interactions also raise concerns about sustainability and environmental impact, emphasizing the need for responsible stewardship of the physical world.

## Future Perspectives and Scientific Exploration

Advancements in science continue to deepen our understanding of the physical universe:

- Quantum physics explores the behavior of particles at the smallest scales.
- Cosmology investigates the origins and fate of the universe.
- Geosciences study Earth's processes and climate change.
- Technological innovations like space exploration and renewable energy are expanding our capabilities.

Continued research promises to unlock mysteries of the cosmos, improve resource management, and foster sustainable development.

## Conclusion

The physical world is the tangible universe that surrounds us, composed of matter, energy, forces, and natural laws. Its study not only satisfies human curiosity but also drives technological progress and environmental conservation. By understanding the components and laws that govern the

physical universe, we enhance our ability to live harmoniously within it, address global challenges, and explore the endless possibilities that lie ahead.

Whether through observing celestial phenomena or understanding the principles of motion and energy, the physical world remains a vast and fascinating domain that continues to inspire scientific discovery and human ingenuity.

Chapter One: The Physical World serves as a foundational exploration into the tangible aspects of our universe, offering readers a comprehensive understanding of the physical universe's fundamental principles. This chapter sets the stage for deeper scientific inquiry by examining the nature of matter, energy, and the fundamental laws that govern physical phenomena. Its detailed approach aims to bridge the gap between abstract scientific concepts and real-world observations, making it an essential starting point for anyone interested in the sciences.

## Overview of the Chapter

This chapter introduces readers to the core components of the physical universe, emphasizing the importance of empirical evidence and scientific methodology. It delves into the nature of matter and energy, explores the fundamental forces, and discusses the structure of the universe from the microscopic to the cosmic scale. The chapter also sets the tone for subsequent discussions by emphasizing critical thinking and scientific reasoning.

## Understanding Matter

A significant portion of the chapter is dedicated to understanding matter—the substance that makes up everything around us. The discussion begins with the basic building blocks of matter: atoms and molecules, and extends to the states of matter—solid, liquid, gas, and plasma.

## Atoms and Molecules

The chapter provides a clear explanation of atomic theory, highlighting how atoms are the smallest units of matter retaining chemical properties. It discusses protons, neutrons, and electrons, and their arrangement within atoms, giving insight into how atomic structure influences chemical behavior.

- Features:
- Visual diagrams illustrating atomic structure.
- Explanation of atomic number, mass number, and isotopes.
- Connection to chemical reactions and properties.

- Pros:
- Clear, accessible language suitable for beginners.
- Visual aids enhance understanding.

- Cons:
- Some complex quantum mechanical concepts are simplified, which may leave curious readers wanting more detail.

## States of Matter

The chapter covers the classical states of matter—solid, liquid, gas—and introduces plasma as the fourth state, emphasizing their physical characteristics and behavior.

- Features:
  - Descriptions of particle arrangements and movement.
  - Real-world examples for each state.
  - Discussions on phase changes and energy transfer.
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- Pros:
  - Practical illustrations help relate concepts to everyday experiences.
  - Highlights the importance of energy in changing states.
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- Cons:
  - Limited discussion on less common states like Bose-Einstein condensates.

## Energy and Its Forms

The chapter advances to explore energy, emphasizing its pivotal role in the physical universe. It categorizes energy into various forms—kinetic, potential, thermal, chemical, electromagnetic—and discusses their interconvertibility.

### Types of Energy

Readers learn about how energy manifests in different contexts, from a moving vehicle (kinetic) to stored chemical energy in food or batteries.

- Features:
  - Clear distinctions between energy types.
  - Real-life examples illustrating energy transformation.
  - Introduction to the law of conservation of energy.
- Pros:
  - Well-structured explanations facilitate comprehension.
  - Emphasizes the universality of energy principles.
- Cons:
  - Some complex energy transfer mechanisms are not deeply explored.

## Energy and Work

The chapter connects energy to work, explaining how applying force over a distance results in energy transfer, an essential concept in physics.

- Features:
  - Mathematical expressions of work and energy.
  - Examples from everyday life and engineering.
- Pros:
  - Reinforces understanding through practical examples.
  - Foundations for further study in mechanics.
- Cons:
  - Some readers may find the mathematical aspects introductory.

## Fundamental Forces of Nature

A pivotal section discusses the four fundamental forces?gravitational, electromagnetic, strong nuclear, and weak nuclear?detailing their roles in shaping the universe.

## Gravity

Gravity is presented as the weakest yet most far-reaching force, responsible for planetary orbits and

the structure of galaxies.

- Features:
  - Newtonian and Einsteinian perspectives.
  - Real-world implications, such as tides and orbits.
  
- Pros:
  - Connects classical and modern physics.
  - Accessible explanations for complex theories.
  
- Cons:
  - Brief coverage of advanced theories like general relativity.

## Electromagnetic Force

This force governs electricity, magnetism, and light, and the chapter explores its pervasive influence.

- Features:
  - Explanation of electric charges, fields, and potentials.
  - Connection to technology like circuits and electromagnetism.
  
- Pros:
  - Links physics to technological applications.
  - Clear diagrams simplify complex concepts.
  
- Cons:
  - Limited discussion on electromagnetic waves beyond visible light.

## Strong and Weak Nuclear Forces

These forces operate at the atomic nucleus level, explaining phenomena like nuclear fusion and radioactive decay.

- Features:



- Basic descriptions suitable for beginners.
- Relevance to nuclear energy and particles.
  
- Pros:
  - Highlights the importance of subatomic interactions.
  - Provides groundwork for future nuclear physics studies.
  
- Cons:
  - Depth is limited; advanced topics are beyond scope.

## The Structure of the Universe

The chapter culminates with an overview of the universe's large-scale structure, from stars and planets to galaxies and cosmic phenomena.

### Solar System and Stars

Readers are introduced to our solar system's components and the lifecycle of stars, emphasizing their physical characteristics and evolution.

- Features:
  - Descriptions of planetary compositions.
  - Overview of stellar formation and death.
  
- Pros:
  - Engaging descriptions foster curiosity.
  - Visual aids enhance spatial understanding.
  
- Cons:
  - Some complex stellar processes are simplified.

### Galaxies and Cosmic Structures

The chapter expands to describe galaxy types, cosmic filaments, and the expansion of the universe, touching upon key observational evidence like redshift.

- Features:
  - Introduction to cosmology concepts.
  - Summary of the Big Bang theory.
- Pros:
  - Provides a broad perspective on the universe.
  - Connects physical laws to cosmic evolution.
- Cons:
  - Limited discussion on dark matter and dark energy.

## Critical Analysis and Overall Impression

Chapter One effectively lays the groundwork for understanding the physical world by presenting complex concepts in an accessible manner. Its strengths lie in clear explanations, visual aids, and practical examples that make abstract ideas tangible. The structure logically progresses from microscopic matter to the vast cosmos, helping readers build a cohesive understanding of the universe's physical aspects.

Pros:

- Comprehensive coverage of fundamental topics.
- User-friendly language suitable for beginners and students.
- Visual diagrams and real-world examples reinforce concepts.
- Encourages scientific curiosity and critical thinking.

Cons:

- Some topics are simplified, leaving out advanced details for interested readers.
- Limited coverage of recent developments in physics, such as quantum mechanics and astrophysics.
  - A few sections could benefit from more in-depth exploration for graduate-level understanding.

## Conclusion

In sum, Chapter One: The Physical World serves as an excellent introductory resource for those new to science. It balances breadth and clarity, providing the essential knowledge needed to

appreciate the physical universe's complexity. While not exhaustive, it paves the way for more detailed study and encourages a scientific mindset rooted in observation and reasoning. For educators, students, and curious minds alike, this chapter offers a solid foundation upon which to build further exploration into the fascinating realm of physics and cosmology.

**QuestionAnswer** What is the physical world according to Chapter One? The physical world refers to the tangible and observable universe around us, including matter, energy, planets, mountains, and natural phenomena. Why is the study of the physical world important? Studying the physical world helps us understand the natural laws governing the universe, enables technological advancement, and fosters awareness about our environment and sustainability. What are some key components of the physical world discussed in Chapter One? Key components include the Earth's landforms, water bodies, atmosphere, minerals, and living organisms, all of which interact within the physical environment. How does Chapter One define the relationship between humans and the physical world? It emphasizes that humans are an integral part of the physical world and that our actions can impact natural processes and ecosystems. What are natural phenomena mentioned in Chapter One? Natural phenomena include earthquakes, volcanoes, weather patterns, rainfall, and other events caused by natural forces within the physical environment. How does understanding the physical world help in addressing environmental issues? Understanding natural processes and the Earth's systems helps us develop sustainable practices and policies to protect the environment from pollution, climate change, and resource depletion. What role does technology play in exploring the physical world as discussed in Chapter One? Technology allows us to observe, analyze, and understand the physical world more accurately through tools like satellites, telescopes, and scientific instruments, enhancing our knowledge and ability to solve environmental problems.

**Related keywords:** physics, earth science, natural phenomena, matter, energy, geology, astronomy, environmental science, scientific principles, universe

## Amazing World Atlas Bringing The World To Life Lo

### amazing world atlas bringing the world to life lo

In an increasingly interconnected world, the value of a comprehensive world atlas cannot be overstated. An amazing world atlas brings the world to life lo by offering a vivid, detailed, and interactive experience that allows users to explore the diverse landscapes, cultures, and histories of our planet. Whether you're a student, traveler, educator, or simply a curious mind, a well-crafted world atlas serves as an invaluable resource that transforms geographical data into an engaging visual journey. In this article, we'll delve into the features, benefits, and significance of an amazing world atlas, exploring how it brings the world to life and enhances our understanding of global

geography.

## What Is an Amazing World Atlas?

An amazing world atlas is a comprehensive collection of maps and geographical information that depicts the Earth's physical and political features. Unlike traditional atlases, which may focus solely on static maps, modern world atlases incorporate interactive elements, detailed illustrations, and multimedia content to provide a richer learning experience. They serve as a window into the world's landscapes, cities, climates, and cultural diversity.

## Key Features of a World Atlas

- Detailed Maps: Including political, physical, topographical, and thematic maps.
- Interactive Elements: Digital atlases often feature zoom, pan, and clickable regions for in-depth exploration.
- Up-to-Date Data: Reflecting recent geopolitical changes, natural events, and demographic shifts.
- Multimedia Content: Photos, videos, and audio guides that bring places to life.
- Educational Resources: Quizzes, fact sheets, and historical timelines to enhance learning.

## The Significance of a World Atlas in Today's World

### Enhancing Global Awareness and Education

A world atlas is an essential educational tool that fosters global awareness. By visualizing the world's geography, it helps learners understand spatial relationships and the interconnectedness of regions. It makes complex data accessible and engaging, promoting curiosity about different countries and cultures.

### Supporting Travel and Exploration

Travel enthusiasts rely on world atlases to plan trips, discover new destinations, and understand the geographical context of their travels. An amazing atlas provides detailed maps of cities, landmarks, and natural features, making trip planning more informed and exciting.

### Facilitating Research and Policy-Making

Researchers and policymakers use atlases to analyze demographic trends, environmental issues, and geopolitical developments. A comprehensive atlas provides reliable data that supports informed decision-making.

## Features that Make a World Atlas Truly Amazing

### 1. High-Resolution and Accurate Maps

High-quality, detailed maps with accurate geographic data are the foundation of an amazing atlas. They enable users to see precise boundaries, terrain features, and key landmarks.

### 2. Interactive and User-Friendly Interface

Modern digital atlases offer intuitive navigation, search functions, and interactive layers that allow users to customize their exploration experience.

### 3. Rich Multimedia Content

Incorporating images, videos, and audio guides enhances understanding and engagement. For example, clicking on a region might reveal its cultural festivals or natural wonders.

### 4. Up-to-Date Information

An amazing atlas is regularly updated to include recent changes such as new political borders, natural disasters, and infrastructural developments.

### 5. Thematic Mapping Capabilities

Visualize various data types such as climate zones, population density, linguistic distributions, and economic activity through thematic maps.

## Top Features of the Best World Atlases

- Global Coverage: Including every continent and island nation.
- Detailed City Maps: Focused maps of major cities with transportation, landmarks, and neighborhoods.
- Natural Wonders: Highlighting UNESCO World Heritage Sites, national parks, and geological formations.
- Cultural Insights: Information about languages, religions, and traditions.
- Environmental Data: Climate patterns, biodiversity hotspots, and conservation areas.

## Popular Types of World Atlases

### Digital Interactive Atlases

These atlases are accessible via websites and apps, allowing dynamic exploration with features like 3D globes, searchable databases, and multimedia integration.

## Physical Atlases

Traditional printed atlases remain valuable for classroom use, research, and personal collections, providing reliable, high-quality maps and data.

## Specialized Atlases

Focused on specific themes such as climate change, historical geography, or economic development, these atlases cater to niche interests.

## How an Amazing World Atlas Brings the World to Life

### Visual Storytelling

Maps are a powerful storytelling tool. An engaging atlas uses color, symbols, and illustrations to narrate stories about Earth's landscapes and cultures, making learning immersive.

### Interactive Exploration

Digital atlases allow users to zoom into local details or zoom out for a global perspective, click on regions for detailed info, and customize views to suit their interests.

### Educational Engagement

Features like quizzes, virtual tours, and multimedia content turn passive learning into active engagement, fostering curiosity and retention.

### Connecting Data with Reality

Modern atlases combine satellite imagery, demographic data, and historical information, creating a multi-layered view that reflects the complexity of our world.

## Benefits of Using an Amazing World Atlas

- Enhanced Learning: Visual aids improve retention and understanding.
- Cultural Appreciation: Discover diverse traditions and histories.
- Environmental Awareness: Understand ecological challenges and conservation efforts.

- Travel Planning: Make informed decisions on destinations, routes, and accommodations.
- Research Support: Access reliable data for academic and professional projects.

## Choosing the Right World Atlas

### Consider Your Needs

- For students: Look for interactive, easy-to-understand atlases.
- For travelers: Focus on detailed city and regional maps.
- For researchers: Seek atlases with extensive data layers and updates.
- For educators: Find resources with educational tools and multimedia content.

### Top Recommendations

- National Geographic World Atlas: Renowned for accuracy and stunning visuals.
- Google Earth: An interactive digital globe with detailed satellite imagery.
- Atlas of the World by Collins: Comprehensive physical and political maps.
- World Atlas by National Geographic Kids: Ideal for young learners.
- Online platforms like ArcGIS: For advanced thematic mapping and data analysis.

## The Future of World Atlases

Advancements in technology continue to revolutionize how we explore and understand our world. The future of an amazing world atlas includes:

- Integration of real-time data feeds (weather, natural disasters).
- Augmented reality (AR) features for immersive experiences.
- AI-powered personalized maps based on user interests.
- Enhanced storytelling through virtual reality (VR).

## Conclusion

An amazing world atlas bringing the world to life is more than just a collection of maps; it's a dynamic, engaging tool that connects us with the planet's vast diversity. It enriches our understanding, fuels curiosity, and inspires exploration. Whether used for education, travel, research, or personal interest, a well-crafted atlas transforms geographical data into a captivating journey across continents and cultures. Embrace the power of modern atlases and let them bring the world to life for you today!

## Amazing World Atlas Bringing the World to Life LO: A Comprehensive Guide to Exploring Our Planet in Stunning Detail

In an era where digital technology constantly transforms how we view and understand our world, the amazing world atlas bringing the world to life LO stands out as a remarkable tool that bridges the gap between traditional cartography and immersive exploration. This innovative atlas not only maps the continents, countries, and cities but also infuses each page with vibrant visuals, detailed information, and interactive elements that truly bring the world to life. Whether you're a student, traveler, educator, or simply a curious mind, this atlas provides a window into the planet's diverse landscapes, cultures, and ecosystems in ways that are both engaging and educational.

### The Evolution of World Atlases: From Paper to Digital and Beyond

#### Historical Context

The journey of world atlases begins centuries ago, with early cartographers painstakingly drawing maps that served explorers and scholars. These early editions were often limited by the technology of their time, featuring hand-drawn illustrations and basic geographical data. Over the centuries, advancements in printing, surveying, and satellite imagery revolutionized map-making, leading to more accurate and detailed representations of the Earth's surface.

#### Modern Innovations

Today, the amazing world atlas bringing the world to life LO exemplifies the latest in cartographic technology. It incorporates satellite imagery, Geographic Information Systems (GIS), and multimedia features to create an immersive experience. Unlike static paper maps, digital atlases can be interactive, allowing users to zoom in on regions, explore layers of data, and even access real-time updates about weather, political changes, and environmental shifts.

### Key Features of the Amazing World Atlas Bringing the World to Life LO

#### - High-Resolution Visuals and Interactive Maps

One of the most striking features is the stunning, high-resolution visuals that depict Earth's terrain, urban landscapes, and natural wonders. Interactive maps enable users to:

- Zoom into specific locations for detailed views
- Switch between different map layers (e.g., physical, political, climate)



- Explore 3D terrain models to understand topography
- Rich Cultural and Historical Content

Beyond geography, this atlas delves into the cultural and historical aspects of different regions. It offers:

- Overviews of significant historical events
- Cultural highlights, festivals, and traditions
- Information about indigenous peoples and languages
- Ecosystem and Climate Data

Environmental awareness is embedded within the atlas through features like:

- Climate zones and weather patterns
- Biodiversity hotspots
- Conservation efforts and ecological challenges
- Real-Time Data Integration

Leveraging the power of modern technology, the atlas provides real-time data such as:

- Current weather conditions
- Flight paths and transportation networks
- Natural disaster alerts

## How the Amazing World Atlas Brings the World to Life

### Immersive Visual Storytelling

The combination of vibrant imagery and storytelling transforms static maps into narratives that captivate. For example, viewing the Amazon rainforest's detailed layers reveals not just its vast size but also its ecological significance, indigenous cultures, and environmental threats.

## Engaging Educational Content

Educational institutions utilize this atlas to make learning interactive and dynamic. Features like quizzes, virtual tours, and multimedia annotations foster deeper engagement and understanding.

## Encouraging Global Awareness

By highlighting global issues such as climate change, migration, and urbanization, the atlas inspires viewers to become more globally conscious and proactive in addressing challenges.

## Practical Applications of the Amazing World Atlas Bringing the World to Life LO

### For Students and Educators

- Enhances geography lessons with interactive content
- Provides visual aids for history, environmental science, and cultural studies
- Encourages project-based learning and research

### For Travelers and Explorers

- Serves as a planning tool with detailed maps of destinations
- Offers insights into local culture, climate, and points of interest
- Facilitates virtual exploration when physical travel isn't possible

### For Researchers and Policy Makers

- Supplies up-to-date environmental and demographic data
- Assists in planning conservation projects and urban development
- Supports disaster response planning through real-time alerts

## The Future of World Atlases: What's Next?

### Augmented Reality (AR) and Virtual Reality (VR)

The integration of AR and VR technologies promises even more immersive experiences, allowing users to virtually walk through historical sites or explore ecological zones in 3D.

### Personalized and Adaptive Maps

Future atlases may adapt to user interests, providing tailored content such as niche ecological data, historical timelines, or cultural stories based on user preferences.

### Increased Accessibility and Inclusivity

Developments aim to make atlases more accessible, including features for visually impaired users, multilingual options, and simplified interfaces for children.

### Conclusion: Why the Amazing World Atlas Bringing the World to Life LO Matters

In a world increasingly interconnected yet complex, the amazing world atlas bringing the world to life LO acts as a vital bridge to understanding our planet. It transforms dry data into engaging stories, static images into immersive worlds, and isolated facts into a comprehensive narrative of Earth's richness. This atlas not only educates but also inspires curiosity, empathy, and responsibility towards our shared home. As technology advances, its potential to deepen our connection with the world will only grow, making it an indispensable tool for anyone eager to explore, learn, and contribute to a sustainable future.

Embark on your journey of discovery today with the amazing world atlas bringing the world to life LO, and see our planet in a way you've never experienced before!

**QuestionAnswer** What features make the 'Amazing World Atlas Bringing the World to Life' stand out among other atlases? It offers interactive maps, detailed illustrations, and engaging multimedia content that bring geographical features and world cultures to life, making learning immersive and fun. Is the 'Amazing World Atlas Bringing the World to Life' suitable for children and students? Yes, it is designed to be educational and engaging for children and students, featuring age-appropriate content, colorful visuals, and interactive activities to enhance learning. Can the 'Amazing World Atlas Bringing the World to Life' be accessed digitally? Absolutely, it is available in digital formats, including apps and online platforms, which allow users to explore the world interactively from their devices. How does this atlas help users understand global geography and cultures better? By combining detailed maps, cultural information, and multimedia elements like videos and sound clips, it provides a comprehensive and engaging way to learn about different regions and peoples worldwide. Are there any updates or new editions of the 'Amazing World Atlas Bringing the World to Life'? Yes, publishers frequently update the atlas to include new data, recent geopolitical changes, and enhanced multimedia features to keep the content current and relevant.

**Related keywords:** world atlas, geography, world maps, travel guide, cartography, world exploration, globe, world regions, world landmarks, world facts

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