

# MASS EXTINCTIONS

A mass extinction is a sharp spike in the rate of extinction of species caused by a catastrophic event, or rapid environmental change. Scientists have been able to identify five mass extinctions in Earth's history, each of which led to a loss of more than 75 percent of animal species.

## 1. ORDOVICIAN-SILURIAN EXTINCTION 440 MILLION YEARS AGO (MA)

Scientists theorize that there were two main phases to this extinction: a glaciation event and a heating event. Abundant plant life removed carbon dioxide (CO<sub>2</sub>) from the air, causing global cooling and glacier formation. This led to a drop in sea levels, reducing habitat. Later came global warming and sea level rising again. Creatures that had adapted to the cooler climate were unable to survive the increased temperature. Since most life was marine at the time, 80% of life was lost.

86% LOSS

## 2. LATE DEVONIAN EXTINCTION—365 MA

About 75% of life died off during this period. One theory suggests that land plants developed deep roots, releasing an abundance of nutrients into the oceans that led algae. Because of this, algae blooms consumed vast amounts of oxygen (O<sub>2</sub>) in the oceans, suffocating many species. Another theory suggests that another global cooling took place, resulting in glaciation and a fall in sea level, leading to habitat loss.

75% LOSS

## 3. PERMIAN-TRIASSIC EXTINCTION—252 MA

The Permian-Triassic was the deadliest extinction in history: 90% of all life perished. Scientists believe that volcanic activity in Siberia put massive amounts of carbon dioxide, a greenhouse gas, into the atmosphere. Bacteria that thrive on CO<sub>2</sub> began producing methane, another greenhouse gas. Large quantities of both gases warmed the planet and combined with Earth's water, making the oceans and sea acidic, creating a highly toxic environment for life.

96% LOSS

## 4. TRIASSIC-JURASSIC EXTINCTION—201.3 MA

Some scientists theorize that volcanic eruptions spewed tons of CO<sub>2</sub> into the atmosphere, which trapped heat and acidified the oceans, causing this mass extinction. Other scientists contend that an asteroid or comet impact triggered the extinction. About 80% of life was lost in this extinction, including most of the dinosaurs, making way for the dinosaur's extinction.

80% LOSS

## 5. CRETACEOUS-PALEOGENE EXTINCTION—66 MA

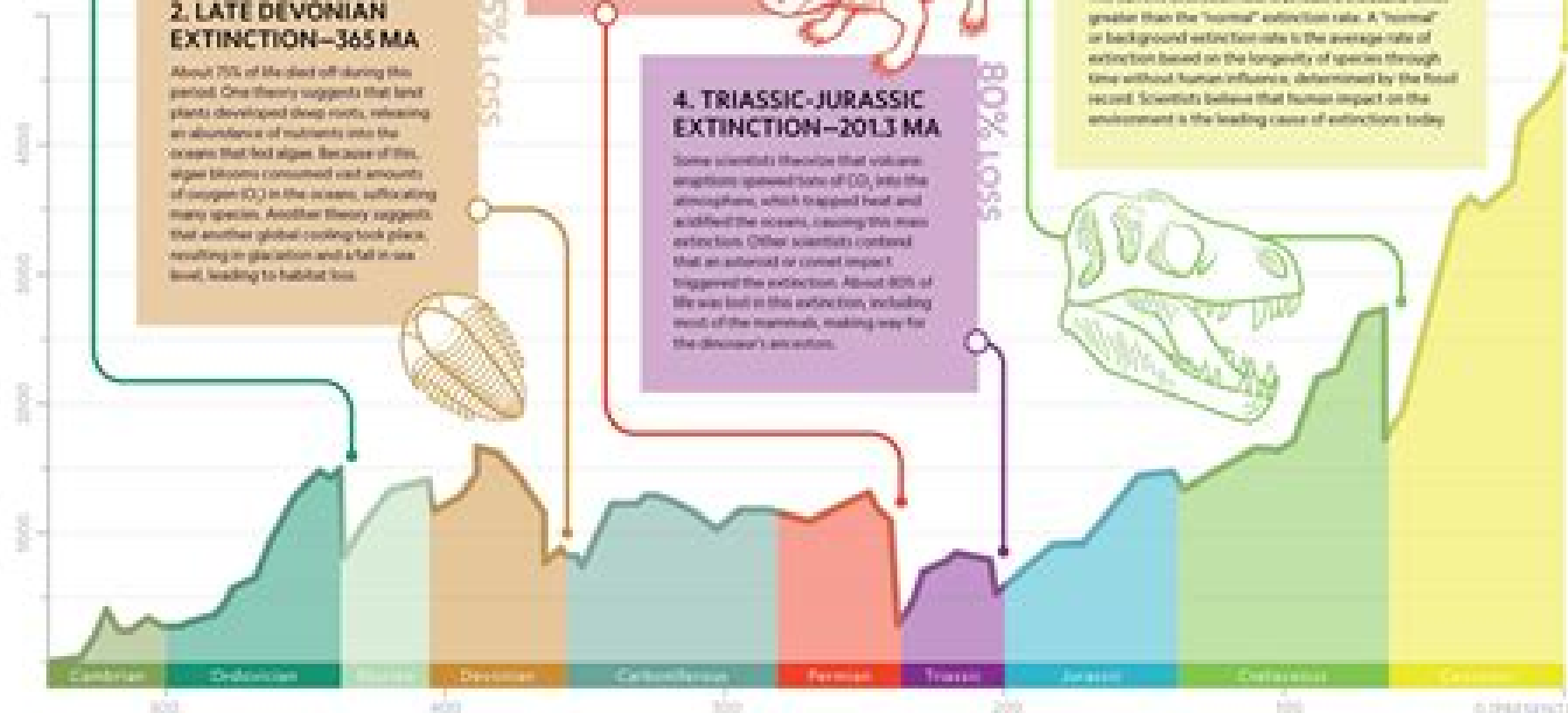
The Cretaceous-Paleogene extinction wiped out the dinosaurs, along with 60-70% of all life on Earth. A widely accepted theory is that an asteroid landed in the Yucatán Peninsula in Mexico and killed the dinosaurs. The impact would have ejected enormous amounts of debris into the atmosphere, causing global temperatures to drop. The impact may have also caused local fires, earthquakes, tsunamis, and acid rain.

60-70% LOSS

## 6. HOLOCENE EXTINCTION 11,700 YEARS AGO TO PRESENT

The next mass extinction may already be happening. The current extinction rate is at least a thousand times greater than the "normal" extinction rate. A "normal" or background extinction rate is the average rate of extinction based on the longevity of species through time without human influence, determined by the fossil record. Scientists believe that human impact on the environment is the leading cause of extinctions today.


NUMBER OF GENERA



GEOLOGIC TIME IN MILLIONS OF YEARS

# Mass Extinctions Lab Manual

**Kirtley Fletcher Mather, Ralph Gordon  
Lusk**



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## **Table of Contents Mass Extinctions Lab Manual**

1. Understanding the eBook Mass Extinctions Lab Manual
  - The Rise of Digital Reading Mass Extinctions Lab Manual
  - Advantages of eBooks Over Traditional Books
2. Identifying Mass Extinctions Lab Manual
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Mass Extinctions Lab Manual
  - User-Friendly Interface
4. Exploring eBook Recommendations from Mass Extinctions Lab Manual
  - Personalized Recommendations
  - Mass Extinctions Lab Manual User Reviews and Ratings
  - Mass Extinctions Lab Manual and Bestseller Lists

- 
5. Accessing Mass Extinctions Lab Manual Free and Paid eBooks
    - Mass Extinctions Lab Manual Public Domain eBooks
    - Mass Extinctions Lab Manual eBook Subscription Services
    - Mass Extinctions Lab Manual Budget-Friendly Options
  6. Navigating Mass Extinctions Lab Manual eBook Formats
    - ePub, PDF, MOBI, and More
    - Mass Extinctions Lab Manual Compatibility with Devices
    - Mass Extinctions Lab Manual Enhanced eBook Features
  7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Mass Extinctions Lab Manual
    - Highlighting and Note-Taking Mass Extinctions Lab Manual
    - Interactive Elements Mass Extinctions Lab Manual
  8. Staying Engaged with Mass Extinctions Lab Manual
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Mass Extinctions Lab Manual
  9. Balancing eBooks and Physical Books Mass Extinctions Lab Manual
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Mass Extinctions Lab Manual
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Mass Extinctions Lab Manual
    - Setting Reading Goals Mass Extinctions Lab Manual
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Mass Extinctions Lab Manual
    - Fact-Checking eBook Content of Mass Extinctions Lab Manual
    - Distinguishing Credible Sources
  13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

#### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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