

# The Day The Mesozoic Died Worksheet

Name: \_\_\_\_\_  
Source: \_\_\_\_\_

The Day the Mesozoic Died

1. How long did dinosaurs rule the planet? **Over 100 million years**
2. What do we have left of dinosaurs? **Bones**
3. What is one thing we can tell from the bones we found of dinosaurs?  
**How they lived, what they looked like, when they lived**
4. In Gubbio what type of rock contained dinosaur remains? **Limestone cliffs**
5. What sea creature did they use to try and determine the relative age of the limestone? **By looking at the fossils of tiny sea creatures (plankton)**
6. What happened to the species they saw in the layer after the thin line of clay in the rock? **They disappeared**
7. In the town of Zuercher what time period was represented in the limestone? **Cretaceous period**
8. What did they call that grey line (what boundary was it)? **K-T boundary**
9. What are the 3 eras that show the history of animal life on earth?  
**Paleozoic, mesozoic, cenozoic**
10. What do we believe happened at the K-T boundary? **Mass extinction**
11. How large was the asteroid that hit the dinosaurs? **10 kilometers (about 6 miles)**
12. The energy released from the last would equal what? **100 million nuclear bombs**
13. Explain how the food chain would be affected by debris covering the sun? **Photosynthesis would have stopped causing producers to die off then those that rely on plants and so forth**
14. What mineral was found at the boundary that could indicate a blast?  
**Shocked quartz**
15. Where did we find the crater where the asteroid hit? **Gulf of Mexico**
16. Have we found any dinosaur remains above the K-T boundary? **No**

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The day the Mesozoic died worksheet is an essential educational resource that helps students understand one of the most significant events in Earth's history: the mass extinction that marked the end of the Mesozoic Era. This era, spanning approximately 180 million years, is famous for the dominance of dinosaurs and the evolution of many other life forms. However, around 66 million years ago, a catastrophic event led to the extinction of nearly three-quarters of Earth's species, including the dinosaurs. This article delves into the context of this extinction event, its causes, and how worksheets and educational activities can enhance understanding of this pivotal moment in Earth's history.

## Understanding the Mesozoic Era

The Mesozoic Era, often referred to as the "Age of Dinosaurs," is divided into three periods: the Triassic, Jurassic, and Cretaceous. Each period was characterized by distinct geological and biological features.

### 1. The Triassic Period (252 - 201 million years ago)

- Dominant Life Forms: The Triassic period saw the rise of the first dinosaurs and mammals. Reptiles were the predominant terrestrial vertebrates.
- Geological Features: The supercontinent Pangaea began to break apart, leading to significant changes in climate and sea levels.

## **2. The Jurassic Period (201 - 145 million years ago)**

- Dinosaur Evolution: This period witnessed the diversification of dinosaurs into various forms, including the massive sauropods and fierce carnivores like the Allosaurus.
- Flora and Fauna: The first birds appeared, and lush vegetation dominated by ferns and cycads spread across the continents.

## **3. The Cretaceous Period (145 - 66 million years ago)**

- Floral Diversity: Flowering plants emerged during this time, drastically changing ecosystems.
- Peak of Dinosaur Diversity: The Cretaceous period is known for its vast array of dinosaur species, with iconic creatures like Tyrannosaurus rex and Triceratops.

# **The Extinction Event**

The end of the Mesozoic Era is marked by one of the most catastrophic mass extinction events in Earth's history, known as the Cretaceous-Paleogene (K-Pg) extinction event.

## **1. Timeline of Events**

- 66 Million Years Ago: The K-Pg extinction event occurred.
- Duration: The event unfolded over a relatively short geological time frame, likely within a few thousand years.

## **2. Causes of the Extinction**

The leading theories regarding the causes of the K-Pg extinction event include:

- Asteroid Impact: A significant asteroid, approximately 10 kilometers in diameter, struck the Yucatan Peninsula in present-day Mexico, forming the Chicxulub crater. This impact released immense energy, leading to fires, tsunamis, and a "nuclear winter" effect that drastically altered the climate.
- Volcanic Activity: Extensive volcanic eruptions in the Deccan Traps (present-day India) released vast amounts of volcanic gases, including sulfur dioxide and carbon dioxide, contributing to climate change.
- Climate Change: The combined effects of the asteroid impact and volcanic activity led to a rapid drop in temperatures and disrupted ecosystems, making survival increasingly difficult for many species.

### **3. Consequences of the Extinction**

- Biodiversity Loss: Approximately 75% of all species went extinct, including all non-avian dinosaurs.
- Ecosystem Changes: The loss of dominant species allowed for the rise of mammals and eventually the evolution of humans.
- Geological Impact: The aftermath of the extinction marked significant changes in Earth's geological features, paving the way for new habitats.

## **Educational Resources: The Day the Mesozoic Died Worksheet**

The day the Mesozoic died worksheet is a valuable educational tool for teachers and students. It provides structured activities and questions to facilitate learning about the K-Pg extinction event. Here's how to effectively use this worksheet:

### **1. Content of the Worksheet**

Typically, a worksheet may include the following components:

- Timeline Activities: Students can create a timeline of significant events leading up to and following the K-Pg extinction.
- Cause and Effect Diagrams: These diagrams help students visualize the relationship between the asteroid impact, volcanic activity, and the resulting ecological consequences.
- Research Questions: Open-ended questions encourage critical thinking about the extinction event and its implications for biodiversity.

### **2. Suggested Activities**

To enhance the learning experience, consider incorporating the following activities:

- Group Discussions: Facilitate discussions on the impact of the extinction event on current biodiversity and conservation efforts.
- Creative Projects: Assign students to create a poster or multimedia presentation summarizing their findings about the Mesozoic Era and the extinction event.
- Field Trips: If feasible, organize a visit to a natural history museum or a site related to paleontology.

### **3. Assessment Methods**

To evaluate students' understanding, consider the following assessment methods:

- Quizzes: Conduct quizzes based on the worksheet's content to gauge knowledge retention.
- Presentations: Have students present their projects to the class, allowing for peer learning.
- Written Assignments: Assign essays that require students to analyze the causes and consequences of the K-Pg extinction event.

## **Conclusion**

The day the Mesozoic died worksheet serves as an invaluable educational tool for exploring the complexities of the K-Pg extinction event. By integrating historical context, scientific inquiry, and creative projects, students can gain a deeper understanding of this transformative period in Earth's history. As we study the events that led to the extinction of the dinosaurs and many other species, we also learn valuable lessons about biodiversity, ecological balance, and the impact of catastrophic events on life on Earth. Ultimately, understanding the day the Mesozoic died not only illuminates the past but also encourages thoughtful consideration of our planet's future.

## **Frequently Asked Questions**

### **What major event marks the end of the Mesozoic Era?**

The end of the Mesozoic Era is marked by the Cretaceous-Paleogene (K-Pg) extinction event, which occurred approximately 66 million years ago.

### **What were some of the primary causes of the extinction event that ended the Mesozoic Era?**

The primary causes of the extinction event include a massive asteroid impact, volcanic activity, and climate change, which drastically altered habitats and food sources.

### **How did the extinction of dinosaurs affect the Earth's biodiversity?**

The extinction of dinosaurs allowed for the rapid diversification and evolution of mammals and other species, ultimately leading to the rise of modern ecosystems.

### **What types of organisms went extinct during the Mesozoic extinction event?**

The extinction event led to the loss of about 75% of Earth's species, including all non-avian dinosaurs, many marine reptiles, and various plant species.

**What is one key method scientists use to study the day the Mesozoic died?**

Scientists use geological evidence, such as iridium layers and fossil records, to study the events surrounding the extinction and understand its impact on life on Earth.

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