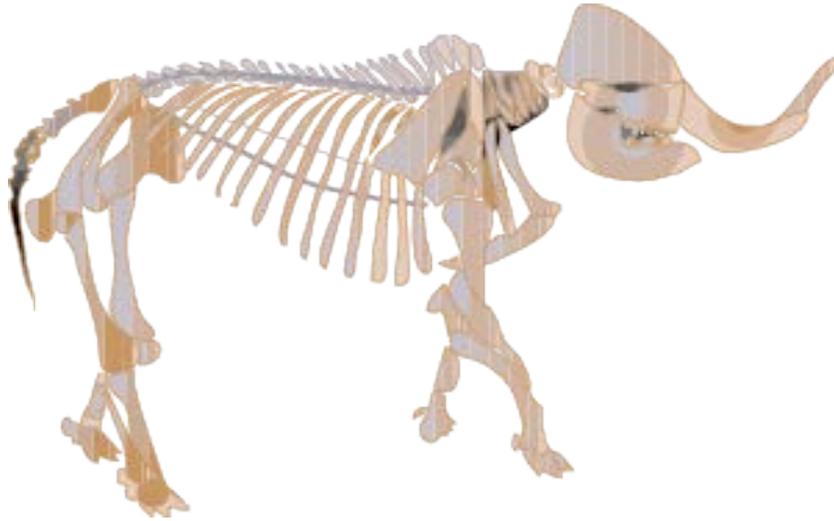


A Mastodon is not a Dinosaur!

An arts integration project



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Arts Integration: A Mastodon is not a Dinosaur!

Lesson Plan 1

Lesson Name: Comparing and Contrasting a Mastodon to dinosaurs and woolly mammoths.

This lesson will take place over the course of many days, as the students research the similarities and differences between the different animals and the mastodon.

Goal: To create an understanding of the similarities and differences between a mastodon, a dinosaur, and a woolly mammoth.

Objective:

The students will be able to do the following:

- Students will brainstorm what they know about dinosaurs, woolly mammoths and mastodons.
- As a class, students will research characteristics of the mastodon (including: what they ate, where they lived, what type of animal they were, etc.). The teacher will write these characteristics down.
- As a class, students will research characteristics of dinosaurs and woolly mammoths (on separate days).
- As a class, students will compare and contrast a mastodon to the other animals.
- Students will use the research they gain about mastodons, woolly mammoths, and dinosaurs to create pages for an informative class book.
- Students will create mini mastodons out of Crayola Model magic, using knowledge gained through research.

Grade Level: Young 5's/Kindergarten

Arts Standards addressed:

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Other Subject Areas Standards addressed:

Kindergarten Science GLCES

- Identify that living things have basic needs (food, habitat, etc.).
- Identify and compare living and nonliving things

Kindergarten ELA GLCES

- R.IT.00.01
- R.IT.00.03
- R.IT.00.04
- R.CM.00.03
- R.CM.00.04
- W.GN.00.04
- W.PR.00.01
- W.PR.00.02
- W.PR.00.03

Instructional Outline:

Introduction:

The students will be introduced to the Owosso mastodon by viewing pictures of the fossilized skeleton. The history of this mastodon, including the personal history to the teacher will also be discussed.

Classroom Management Strategy:

Students will be actively involved in this lesson through brainstorming, listening, creating the mastodon list, comparing and contrasting.

Prep Activity:

Each lesson day, students will begin by brainstorming what they know about the topic animal (mastodon, dinosaur, and woolly mammoth)

Main Activity:

1. Using informative texts and the internet the teacher will guide the students through learning specific characteristics of each animal (mastodon, woolly mammoth, and dinosaur).
2. The students will discover: what each animal ate, where each animal lived, when each animal lived, what each animal looked like
3. The students will, after completing research about each animal, create collaborative classroom fact sheets to compare the mastodon to dinosaurs, and woolly mammoths.
4. Using the research gathered students will create a page for their own books about mastodons, mammoths, and dinosaurs.
5. With the assistance of Mrs. Wylegala and Mrs. Post, students will create mini mastodons out of Crayola Model Magic. They will use research books, and facts to create accurate portrayals of mastodons.

Additional Information:

Materials Needed:

Chart paper

Informative texts, or age-appropriate internet sites containing facts about mastodons, dinosaur (meat eater and plant eater—T-Rex and Stegosaurus), and woolly mammoth.

Markers

Writing paper for student books.

Crayola Model Magic

Cardboard

Hot Glue

Paint

Outcomes/Assessment:

The students knowledge gained through research about mastodons, dinosaurs (T-Rex and stegosaurus), and woolly mammoths and understanding will be assessed through the Venn diagrams they create as a class, through the writing an informative book, and through creating mini mastodons.

Potential Challenges:

Finding information that is age-appropriate for Young 5's students.

Explaining information at an age-appropriate level.

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Lesson Plan 2

Lesson Name: Mastodons lived where?

This lesson will take place over the course of many days, as the students research the habitat of the mastodon.

Goal: To create an understanding of the habitat of a mastodon and to recreate the habitat for scenery for a later arts performance.

Objective:

The students will be able to do the following:

- Students will discuss what a habitat is.
- Students will learn about a modern habitat of an elephant, and other living animals.
- Students will learn what adaptation to a habitat means.
- Students will discuss their habitats.
- As a class, students will research characteristics of a mastodon's habitat and create illustrations of this habitat for the informative classroom book.
- As a class, students will create scenery of a mastodon's habitat for a later arts performance using a variety of visual arts materials (e.g. permanent marker, oil pastels, and paint).

Grade Level: Young 5's/Kindergarten

Arts Standards addressed:

- ART.I.VA.EL.1
- ART.I.VA.EL. 2
- ART.I.VA.EL.3
- ART.I.VA.EL.4
- ART.II.VA.EL. 3
- ART.II.VA.EL.4

Subject Area Standards addressed:

Kindergarten Science GLCES

- Identify that living things have basic needs (food, habitat, etc.).
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Kindergarten ELA GLCES

- R.IT.00.01
- R.IT.00.03
- R.IT.00.04
- R.CM.00.03
- R.CM.00.04
- W.GN.00.04
- W.PR.00.01

- W.PR.00.02
- W.PR.00.03

Instructional Outline:**Introduction:**

The students will be introduced to the science vocabulary words habitat and adaptation. Habitats of living animals will be illustrated to the students using a variety of informative texts/internet. Students will discuss their own habitats.

Classroom Management Strategy:

Students will be actively involved in this lesson through brainstorming, listening, creating individual mastodon habitat illustrations, and creating background scenery for a later arts performance.

Prep Activity:

Habitat will be defined to the students as the environment or place where a plant or animal lives. Students will talk about the characteristics of their own habitats. Then thinking about what has been learned about mastodons from previous lessons a KWL chart will be created for a mastodon habitat.

Main Activity:

1. Using informative texts, photos and the internet the teacher will guide the students through learning specific characteristics of the mastodon's habitat.
2. The students will discover: where mastodon's lived (including geographical locations), types of vegetation, types of animals, weather/climate.
3. As a class, the students will create a habitat fact sheet for their informative texts.
4. The students will, after completing research about habitats will create individual illustrations, and write a corresponding factual sentence for their informative texts.
5. With the assistance of Mrs. Wylegala, the students will create background scenery of a mastodon's habitat for the arts performance. This will take place over several days.

Additional Information:**Materials Needed:**

Chart paper

Informative texts or age-appropriate internet sites containing facts about mastodon habitats

Markers

White paper for student pages of books

Lined writing paper.

Cardboard backdrop

Paint

Oil Pastels

Permanent Markers

Outcomes/Assessment:

The students' knowledge gained through research about mastodon habitats will be illustrated through the individual illustrations each student will be responsible for creating, as well as the background scenery that the classroom will create.

Potential Challenges:

Finding information that is age-appropriate Young 5's students.

Explaining information at an age-appropriate level.

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Lesson Plan 3

Lesson Name: Fossils

This lesson will take place over the course of many days, as the students' research what a fossil is, how a fossil is formed, and the job of a paleontologist.

Goal: To create an understanding of fossil characteristics.

Objective:

The students will be able to do the following:

- Students will learn the difference between a fossil and a bone.
- As a class, students will research how a fossil is formed.
- As a class, students will explore different fossils (including mastodon and other animal fossils), looking at shapes, sizes, similarities, differences, etc.
- As a class, students will discover what a paleontologist does.
- As a class, students will create a fossil fact sheet for our classroom informative text.
- Students will create an illustration of their fossil for our classroom informative text.

Grade Level: Young 5's/Kindergarten

Arts Standards addressed:

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-
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Other Subject Areas Standards addressed:

Kindergarten Science GLCES

- Identify that living things have basic needs (food, habitat, etc.).
- Identify and compare living and nonliving things

Kindergarten ELA GLCES

- R.IT.00.01
- R.IT.00.03
- R.IT.00.04
- R.CM.00.03
- R.CM.00.04
- W.GN.00.04
- W.PR.00.01
- W.PR.00.02
- W.PR.00.03

Instructional Outline:

Introduction:

The students will be introduced to fossils by viewing pictures and actual animal/mastodon fossils.

Classroom Management Strategy:

Students will be actively involved in this lesson through brainstorming, listening, handling fossils, illustrating, and sculpting.

Main Activity:

6. Using informative texts and the internet the teacher will guide the students through learning specific characteristics of fossils (how a fossil is formed, what a fossil is, etc.)
7. The students will discover: how fossils are formed, how fossils are recovered from the ground and assembled, how fossils are identified.
8. The students will participate in *Dig It!*, an age-appropriate fossil program presented by the DeVries Nature Conservancy in Owosso, Michigan.
9. Using the research gathered students will create a page for their books about mastodons.

Additional Information

Materials Needed:

Informative texts or age-appropriate internet sites containing facts about fossils

Markers

Writing paper for students' books.

Mastodon Matrix

Toothpicks, screens, glass jars, water

Paint

Fossil examples

Outcomes/Assessment:

The students knowledge gained through research about fossils will be assessed through a fact page created as a class, and through the writing a collaborative informative, classroom book.

Potential Challenges:

Finding information that is age-appropriate for Young 5's students.

Explaining information at an age-appropriate level.



Age Appropriate Books

*Information may have to be read to students; however the books have fantastic pictures that allow for great questions, and inquiries.

Mastodons and Mammoths

*There are many more books about Mammoths than Mastodons

<u>Wild and Woolly Mammoths</u>	Aliki
<u>Giants from the Past</u>	Joseph H Bailey
<u>Mammoths and Mastodons: Titans of the Ice Age</u>	Cheryl Bardoe
<u>Grandpa's Tooth</u>	MaryAnne Dowling
<u>Mammoths and Mastodons</u>	Susan H Grey
<u>American Mastodon</u>	Michael P Goecke
<u>Mastodons, Mammoths, and Modern-Day Elephants</u>	Marianne Johnson
<u>Eyewitness Prehistoric Life</u>	William Lindsay (DK Eyewitness)
<u>Woolly Mammoth</u>	Mick Manning
<u>Woolly Mammoth's Journey</u>	Debra Miller
<u>Woolly Mammoths</u>	Ginger Wadsworth
<u>The Great Unknown</u>	Taylor Morrison
<u>Mammoths on the Move</u>	Lisa Wheeler

Dinosaurs

*There are many books about dinosaurs; these are some of my students' favorites.

<u>Dinosaur Bones</u>	Bob Barner
<u>Now I Know More about Dinosaurs</u>	David Cutts
<u>Dinosaurs</u>	Gail Gibbons
<u>I can read about Dinosaurs</u>	John Howard
<u>Boy, Were We Wrong About Dinosaurs</u>	Kathleen Kudlinksi

Let's Read about Dinosaurs

Velociraptor

Triceratops

T-Rex

Stegosaurus

Dinosaur for a Day

Joanne Mattern

Jim Murphy

Dinosaurs! Strange and Wonderful

Laurence Pringle and Carol Heyer

New Questions and Answers about Dinosaurs

Seymour Simon

Wonder Why Triceratops Had Horns

Rod Theodorou

Fossils

Digging up Dinosaurs

Aliki

Fossils Tell Of Long Ago

Aliki

My Visit to the Dinosaurs

Aliki

Fossil (Eyewitness)

Fossils From This Earth

William Russell



Web Resources

*Google Search is a great tool. Often, when I first began looking for resources I typed in “Mastodons for kids” or “Fossils for kids.” The “for kids” helped eliminate some of the inappropriate material. Still, web resources had to be looked over before using in the classroom.

1) Enchanted Learning
Enchantedlearning.com

Information, diagrams, projects and books are available. Some were available for free, but most require a membership. One year membership for teachers is \$20.00.

2) A to Z kids stuff
AtoZkidsstuff.com

Information, pictures, and projects are available, mostly free.

3) Museum of the Earth
Museumoftheearth.org

Features: pictures, information about mastodon digs, mastodon links, information about the Mastodon Matrix program.

4) Exhibit Museum of Natural History, University of Michigan
www.lsa.umich.edu/exhibitmuseum

Features: pictures of “Owosso Mastodon”, teacher resources, mastodon information, dinosaur information, field trip details, mastodon links.

5) Calvin College Mastodon Dig
Calvin.edu/academic/geology/mastodon/calvin_c.htm

Features: information about the mastodon dig, pictures and links.

6) Cornell Mastodon Dig
Geo.cornell.edu/mastodon

Features: pictures of the dig, mastodon information, mastodon links.

7) National Geographic Kids
Nationalgeographic.com/kids

In the search engine type in mastodon, mammoth, dinosaur, etc. and information, including pictures, videos, and interactive quizzes are available.

8) The Mammoth Site
Blackhills360.com

Click on the Mammoth Site link for a virtual 360 tour of an indoor fossil bed.

9) Discovery Channel School

<http://school.discoveryeducation.com/schooladventures/woollymammoth/>

Features: mammoth information, and interactive activities.

10) Fossils for Kids

Fossilsforkids.com

Features: interactive website about fossils.

11) Fossils-facts-and-finds.com

Fossils-facts-and-finds.com

Features: fossil information and resources, as well as information about buying fossils.

12) ScienceViews.com

Scienceviews.com/dinosaurs/fossil-formation.html

Features: fossil information (although not easy for early elementary students to understand), and great pictures.

13) Canadian Museum of Nature

<http://nature.ca/notebooks/english/ammasta.htm>

Features: mastodon information, maps, and pictures.

14) DeVries Nature Conservancy

Devriesnature.com

Located in Owosso, Michigan

Features: descriptions of onsite and visitation programs, and educator programs/trainings.

Project Funding

1) Target

Target.com: field trip grants, early childhood reading grants; arts grants

2) MEEMIC Insurance Foundation

Meemic.com: educator grants; book grants

3) School District Foundations

4) School District Parent Teacher Student Associations

5) Local museums, zoos, nature centers

Presenter Contact Information

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