

Grade Level: Elementary (Grades 4-6)

Subjects: Technology, Language Arts, Science



AI Digital 'Elephant Book' for Conservation

Learning about Elephants & Technology

Our Learning Journey Today

Title: What Will We Learn?

Learning Objectives:

- Understand the importance of elephant conservation.
- Learn basic concepts of AI and its application in conservation.
- Create a digital story about elephants using AI tools.
- Develop digital literacy skills



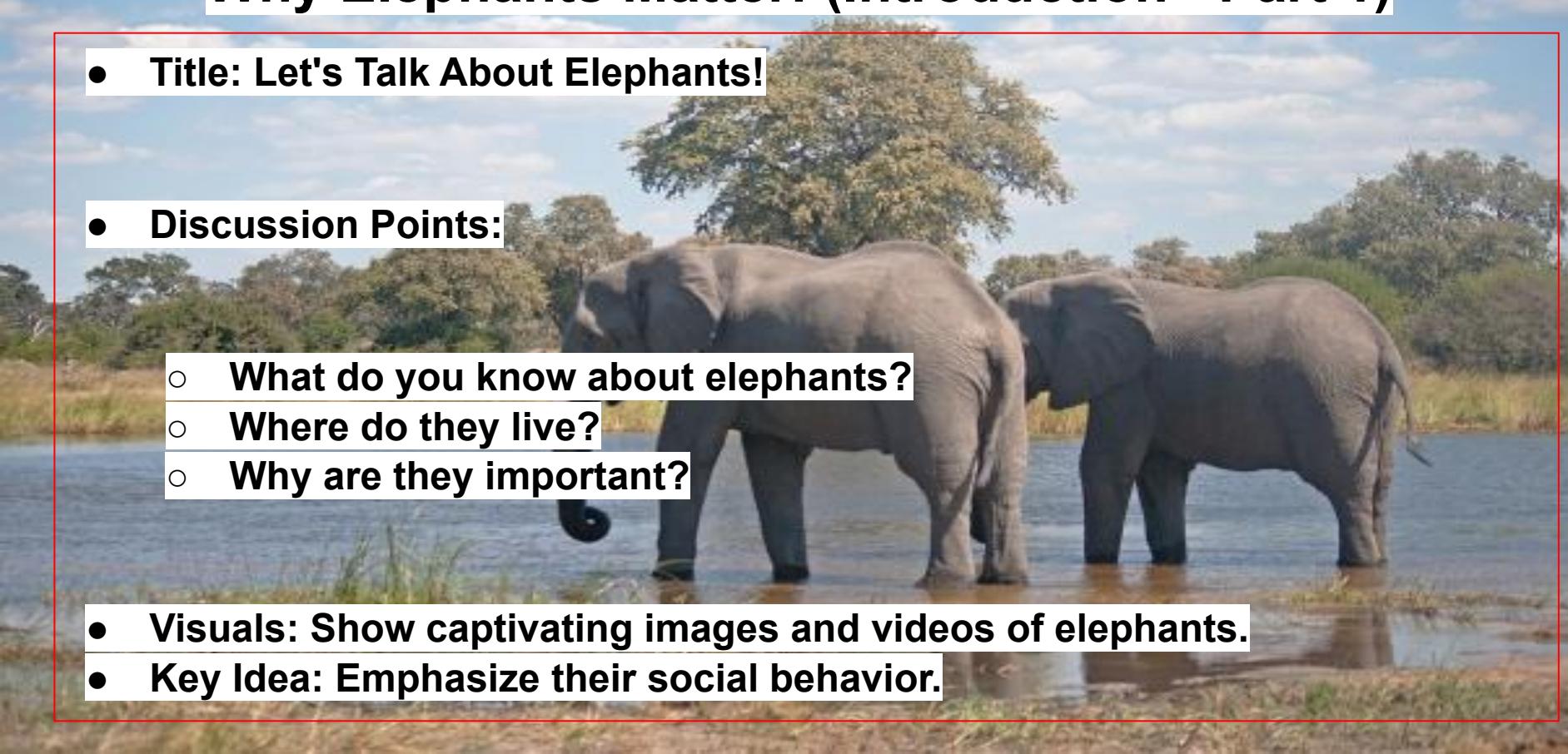
Why Elephants Matter! (Introduction - Part 1)

- Title: Let's Talk About Elephants!

- Discussion Points:

- **What do you know about elephants?**
- **Where do they live?**
- **Why are they important?**

- **Visuals:** Show captivating images and videos of elephants.
- **Key Idea:** Emphasize their social behavior.



Social Behaviors and Communication of Elephants

Elephants use a variety of behaviors to communicate and maintain social bonds, including:

Tactile communication: Touching and caressing each other with their trunks and bodies.

Vocalizations: Using a wide range of sounds, from trumpeting to low-frequency rumbles, to communicate with each other.

Body language: Using their posture and movements to convey information and intentions.



Challenges Elephants Face (Introduction - Part 2)

Title: Elephants Need Our Help!

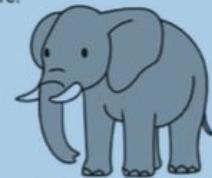
Challenges:

- Habitat Loss
- Conservation
- Poaching
- Illegal Ivory Trade

Terms to Understand for the Protection of Elephants



Conservation
Conservation is like being a superhero for the Earth! Protecting things in nature, like water, plants, animals, and the environment. It's about using natural resources wisely and keeping them healthy for the future.



Poaching
The illegal hunting or capturing of wild animals. For elephants, this often means killing them for their ivory tusks.



Deforestation
The removal of forests, often to make room for farms or buildings. It destroys elephant habitats.



Illegal Ivory Trade
The buying and selling of elephant tusks (ivory) without permission. It happens on the "black market," where things are sold in secret and against the law.

Technology to the Rescue! (Introduction - Part 3)

Title: Technology & Elephant Conservation

What is AI?

- AI helps computers create images and understand words, like a helper!
- **Mara Elephant Project (MEP)** uses technology to help protect elephants such as EarthRanger and ElephantBook
- **EarthRanger as a central platform:**
- EarthRanger is used to track elephants, rangers, vehicles, and other assets, providing a unified view of their operations in the Greater Mara Ecosystem
- **The ElephantBook**, is a software tool used for identifying and tracking individual elephants within a population. It helps to monitor the elephant population, track their movements, and assess their demographics. It also assists in identifying elephants that are injured **or** in conflict situations. Read more: <https://maraelephantproject.org/mep-develops-elephantbook-to-automate-identification-of-elephants/>

Creating Elephant Art with AI! (AI Image Generation)

Title: Our First AI Adventure: Image Creation!

Activity: You'll use an AI tool to create elephant images.

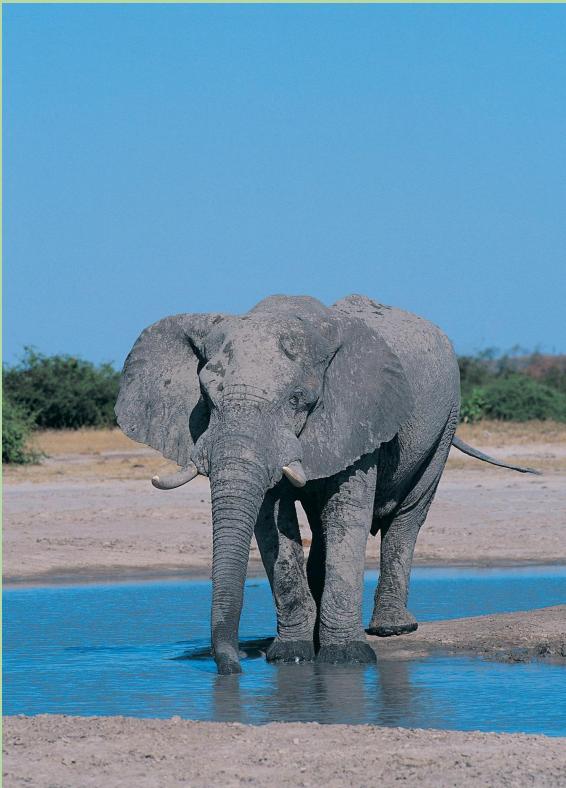
Example Prompts:

- "An elephant in a savanna"
- "A baby elephant playing"
- "An elephant drinking water"

Why? These images will help us create our digital books!

Materials Needed: Computers/Tablets, AI image generation tools (e.g., Google ImageFX, Bing Image Creator)

Example Prompts



Telling Our Elephant Stories (Digital Storytelling - Part 1)

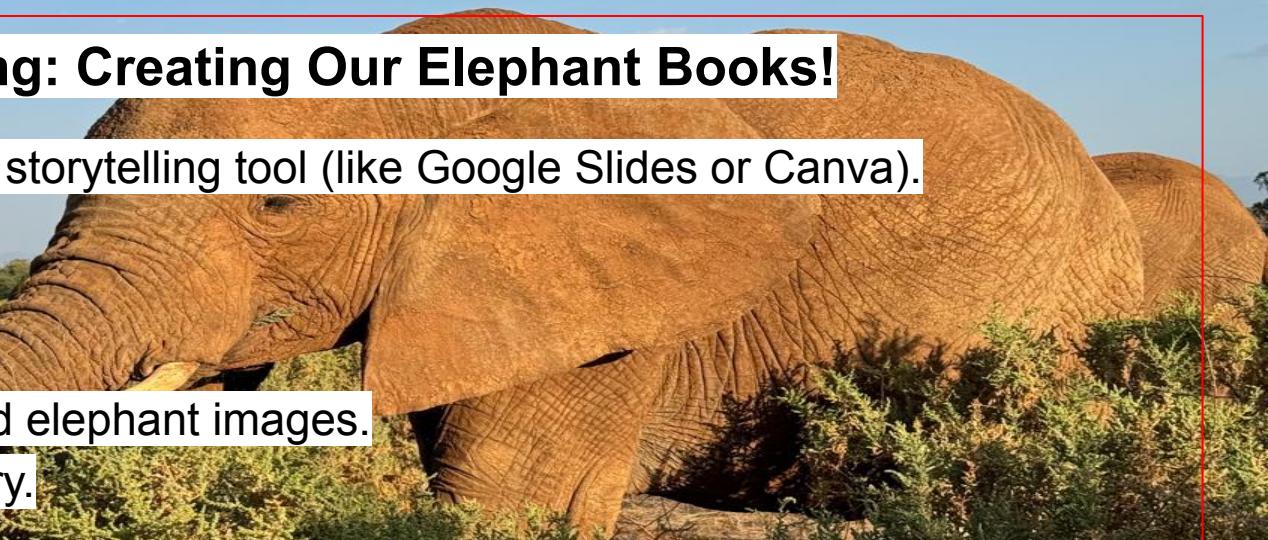
Title: Digital Storytelling: Creating Our Elephant Books!

Platform: We'll use a digital storytelling tool (like Google Slides or Canva).

How To:

- Create slides or pages.
- Insert your AI-generated elephant images.
- Add text to tell your story.

Visuals: Screenshots or examples of the digital storytelling platform.



What Makes a Great Elephant Story? (Digital Storytelling - Part 2)

Title: Your Story's Focus:

Key Elements:

- Elephant behavior
- Conservation messages
- Facts about elephants

Example Story Ideas:

- "The journey of a baby elephant"
- "How people are helping the Elephants"

Remember: Your stories help others learn!



What We Learned (Assessment & Review)

Title: Our Elephant & AI Learning!

We Assessed Your Learning By:

- Observing your participation and engagement.
- Reviewing your digital elephant books for content and creativity.
- Assessing your understanding of elephant conservation and AI.

Share Our Stories & Reflect! (Sharing and Reflection)

Title: Share & Learn Together!

Activity: Share your digital elephant books with the class.

Discussion Questions:

- What did you learn about elephants?
- How can we help protect elephants?
- How can technology help animals?



Recall: How Mara Elephant Project uses technology to track and protect elephants.

More Elephant Adventures! (Extension Activities)

Title: Want to Do More?

Ideas for

Fun:

- Research other animal conservation projects using tech.
- Create a class presentation about elephant conservation.
- Write letters to conservation organizations.



Chat with Mara the Elephant!

Title: Chat with an African Elephant on a Platform You Love!

Imagine: If an elephant could speak, what would they say?

Meet Mara: You and your family can chat with "Mara" the elephant on Messenger, thanks to AiNi!

Mara Will:

- Share stories about her and the herd's life.
- Answer questions about African elephants and conservation.
- Test your knowledge with quizzes and trivia.

Support Conservation: When you subscribe, a majority of proceeds support Mara Elephant Project's conservation work!

How to Connect: Go to Mara's Facebook Page on your app and tap the "Message" button.

<https://www.facebook.com/profile.php?id=61565139880930>

Exciting Resources For Students!

