Nora’s Jungle Math Adventure

Core Purpose of the game is to help grade 2 students with math. The goal will be a puzzle style game asking individual questions one at a time. To win the game you have to answer 10 questions correctly. You are allowed to give 2 incorrect answers per game, for which you have to try again with the same question. The game should let the user know what question they are on and how many mistakes they have made so far.

The math challenges will be multiplication, subtraction and addition with the follow constraints.

* Subtraction with numbers between 1 and 150
* Addition with numbers between 1 and 200
* Simple multiplication user numbers 1 to 5

When a correct answer is given, a gold star should appear with the words congratulations!

Each question should get progressively harder.

When an incorrect answer is given, the user should receive a hint.

Theme should be jungle.

At the beginning of the game you can select a silly cartoon avatar character to be between:

* Parrot
* Jaguar
* Alligator
* Peacock

There should be a tracker showing the progress of the user for the 10 questions. The progress bar should be green, show the number of each question and the avatar should be on the current question of the user.

When a math problem is displayed on the screen, the user should type into a text box the correct answer.

The level of math should be appropriate for 7 and 8 year olds.

The game should be web based.

The game should be single player and ask the user for their name at the beginning as a first step before choosing their avatar.

There should be a next and previous button on each page, as appropriate. The first page does not need a previous button.

At the end of the game, there should be a button for “Start a New Game”

Feedback after test #1

* Questions should not repeat
* For the addition and subtraction questions the numbers should be presented on top of each other.
* Hints and congratulations should not disappear, but rather stay on the screen until the user clicks a button for the next question or to try the question again if a mistake was made
* Hints and congratulations messages to upper to the right of the question.
* For the avatars, include an image of the avatar
* The avatar should be on each page with the questions
* In between the math questions, there should be simple trivia questions about the jungle appropriate for an 8 year old. It doesn’t matter if the question is answered correctly or not, the correct answer should be highlight and additional educational information presented. The information should stay on the screen until the user clicks a button to move to the next question

Absolutely! Here’s an updated jungle-themed quiz with more challenging questions, four answer choices, and a fun fact for each correct answer. 🌿🐒

**Jungle Quiz: Level Up!**

**1. What is a jungle?**

1. A place with only grass
2. A dense forest with many animals
3. **A warm, tropical forest with thick trees and wildlife**
4. A rocky desert  
   📝 *Fun Fact:* Jungles are often found in warm regions with lots of rain, making them perfect for many plants and animals to thrive!

**2. What big cat is known as the "king of the jungle"?**

1. Cheetah
2. **Lion**
3. Panther
4. Jaguar  
   📝 *Fun Fact:* Lions don’t actually live in jungles! They live in grasslands and savannas—but they are still fierce leaders of their habitats!

**3. Which jungle animal uses its long arms to swing from tree to tree?**

1. Sloth
2. **Monkey**
3. Parrot
4. Turtle  
   📝 *Fun Fact:* Monkeys use their tails for balance while swinging through the trees—some even have tails strong enough to grab onto branches like an extra hand!

**4. What is the longest snake found in jungles?**

1. Cobra
2. Anaconda
3. **Reticulated Python**
4. Viper  
   📝 *Fun Fact:* The reticulated python can grow over 30 feet (9 meters) long—longer than a school bus!

**5. What do parrots love to eat?**

1. Meat
2. Candy
3. Leaves  
   ✅ **D) Fruits and nuts**  
   📝 *Fun Fact:* Parrots have strong beaks that help them crack open nuts and seeds, making them expert snackers!

**6. Which jungle frog is highly poisonous?**

1. Tree frog
2. Bullfrog  
   ✅ **C) Poison dart frog**
3. Toad  
   📝 *Fun Fact:* Poison dart frogs get their name because some Indigenous people used their toxic skin to make poison-tipped arrows!

**7. What animal has a long trunk and is found near jungle rivers?**

1. Hippo
2. **Elephant**
3. Rhinoceros
4. Kangaroo  
   📝 *Fun Fact:* An elephant’s trunk has over 40,000 muscles, helping it grab food, drink water, and even use it like a snorkel when swimming!

**8. Why do trees in jungles grow very tall?**

1. To protect birds
2. To touch the sky  
   ✅ **C) To reach sunlight above the thick plants**
3. To scare animals  
   📝 *Fun Fact:* Some trees in jungles can grow over 200 feet tall—that’s taller than a 20-story building!

**9. Which jungle animal is known for its loud roar?**

1. Leopard  
   ✅ **B) Tiger**
2. Owl
3. Gorilla  
   📝 *Fun Fact:* Tigers can roar so loudly that their sound can be heard from over 2 miles (3 km) away!

**10. Why do jungles have so many different animals?**

1. Because they are empty
2. Because animals like loud places
3. Because plants are colorful  
   ✅ **D) Because there is lots of food, water, and shelter**  
   📝 *Fun Fact:* Jungles have one of the highest biodiversity rates, meaning they are home to thousands of species!

I hope this version makes it more fun and challenging! Let me know if you'd like any tweaks or extra questions. 🦜🌴✨