



Summer Camp

Exploring Africa Day 5

TK-3RD GRADE

WELCOME

(5 min)

Instructions: Welcome your students to camp. Say: "Today we get to play a fun game, make chia seed lemonade, play with bricks and build forts!"



Remind students they have the opportunity to earn sand dollars when they complete a task, help another student, help set up or clean up, write in their journal, read a book, etc. Tally the amount of sand dollars that each student earned from helping and record it on the weekly pay role sheet.

GAME TIME

(25 min)

Materials:

- Ropes
- Buckets
- Balls
- Cones
- Other items that will work for the obstacle course

SAFARI RACES

Objective: Players race as safari animals and go through obstacle courses.

Instructions: Set up two identical obstacle courses spanning about the length of a basketball court. Organize players into two teams and have them line up next to each other. Match players up with opponents of similar size and ability. Two players will race at a time as their favorite safari animals to make it from one end of the obstacle course to another. This game can be as creative as the teacher wants it to be. They can run, leap, jump over, run around, army crawl through, and even skip or walk backwards through different parts of the obstacle course. As two animal racers make their way through to the half point, two more racers may go. Once all racers have made it through, the game may begin again if the teacher decides with re-organized lines.

EXPLORATION

(30 min)

Materials:

- Books
- Board or card games
- Various art supplies for students to decorate their journal with

GAMES, BOOKS, AND JOURNAL

Objective: Allow students time to connect with each other through a fun game or let them choose to read or draw/write in their journal. Place out all the fun art supplies for students to access while they decorate and record in their journal. Find a student that will let you highlight their journal page and show the class what they've done to help inspire the class with their good idea.

STEM CREATION

(60 min)

Materials:

- Graduated cylinders with water, lemon juice (2-3 bottles), and sugar
- Chia seeds in cups or graduated cylinders
- Sugar
- Dixie cups (smaller cups work best so students create a smaller amount of lemonade)
- Optional: 10-15 large lemons and a lemon juicer
- Pippi pipettes
- Petri dishes
- Scoopy spoons

STEM TIME

(60 min)

Materials:

- Bricks

ENGINEERING

(60 min)

Materials:

- Sheets
- Clamps
- Cardboard
- Bamboo sticks (optional)
- Twine or thin rope
- Other fort supplies

CHIA SEED LEMONADE

Say: "We are going to experiment with making our own lemonade recipe. You get to experiment with lemon juice, water, and a magical ingredient to create your own lemonade. First we'll explore this magical ingredient."

Instructions: We suggest taking this portion of the lab outside if possible, so you don't have to worry if a student spills lemonade. They will love mixing and creating their own concoction.

1. Allow students to explore the properties of chia seeds. Use the additional resources document to help direct their observations.
2. On each table, set out cylinders of water, some pipettes, cups, scoopy spoons, and graduated cylinders of chia seeds.
3. Students observe dry chia seeds and then place them in their cup and drop in some water from Pippi pipette and observe what happens after a couple minutes. Have them record their findings on their journal sheets. Say: "Chia seeds are delicious and their jelly-like properties make them a fun thing to add to a drink. Let's try making some lemonade with them!"
4. If you are using fresh juice from lemons, invite 10 or so volunteers to cut and juice the lemons, and unclog the strainers. You may need 10-15 lemons.
5. Allow students to be creative with their recipes and add different amounts of each ingredient until they have the perfect blend!
6. Enjoy! Students may make up to 2 cups of lemonade.

Note: During cleanup, do not wash any chia seeds down the sink.

MAKE AN ANIMAL AND ITS HABITAT WITH BRICKS

Instructions: Allow students time to create an animal and its habitat with bricks. Let them choose whether they would like to work alone or in a group to create their animal. Let them be creative in choosing an animal that is real or one they made up.

BUILD FORTS

Objective: Say: "Humans live in habitats just like animals! We just spent time building an animal habitat with bricks, now it's time to build a fort big enough for you to live in! Having protection from the elements is very important. Shelters provide protection from the wind, rain, sun, etc. What will your shelter look like?"

Instructions:

1. Set out all the fort building supplies either inside or outside. If inside, let students be creative using chairs and tables. If outside, bamboo sticks or twine to stretch between trees will be helpful.
2. Allow students to choose who they want to build their forts with. One or two students or many can work together.
3. Allow students to be creative and help them with fort building if needed. Watch what they come up with!
4. As a teacher allow the students to take you on a tour and point out all the great features they built. Compliment students on their forts!