



STEAM Adventure ISLAND

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STEAM Adventure Island

Chapter 5: The Musical Jungle

OBJECTIVE:

Learn about sound and music by creating simple musical instruments from natural and everyday materials.

READ THE STORY:



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MATERIALS:

- Empty recycled containers
- Plastic eggs
- Rubber bands
- Rice or beans
- Wooden sticks or spoons
- Paper plates
- Markers or crayons
- Tape and glue
- String and Scissors
- Decorative items (stickers, paint, etc.)

CHAPTER 5: THE MUSICAL JUNGLE

A Quest for Harmony

After their exciting discoveries in the Colorful Cave, Mia, Liam, Sara, Zoe, and Jay set off for the Musical Jungle, excited to uncover the secrets of the island's natural sounds. Guided by the map they found in the cave, they ventured deeper into STEAM Island, eager to learn how the early inhabitants created music with nature.

Entering the Musical Jungle

As they stepped into the jungle, they were greeted by a symphony of natural sounds—the rustling leaves, chirping birds, and flowing streams created a magical environment. The friends were inspired to make their own instruments using simple materials they found in the jungle.

- Mia suggested they explore the jungle to find natural materials for making instruments.
- Liam wanted to record the jungle sounds with his gadget for inspiration.
- Sara was excited to build instruments and see how different materials made different sounds.
- Zoe started drawing ideas for instruments, inspired by the shapes and patterns in the jungle.
- Jay collected various items, like sticks and rocks, to use in their musical creations.

CHAPTER 5: THE MUSICAL JUNGLE

Creating Jungle Instruments

The friends gathered materials and began crafting their instruments:

- Mia found a hollow log and stretched different lengths of vines across it to create a simple string instrument. She adjusted the tension of the vines to change the pitch of the notes.
- Liam used hollow bamboo stems to create a set of wind chimes. He cut them to different lengths and hung them from a branch, enjoying the different tones they produced.”
- Sara made a drum using a large gourd and some animal hide, explaining how tightening the hide affected the drum's sound.
- Zoe decorated the instruments with jungle-inspired designs, adding feathers and leaves for a natural look.
- Jay crafted a rain stick using a hollow branch filled with small pebbles, showing how tilting the stick created a sound like falling rain.

CHAPTER 5: THE MUSICAL JUNGLE

A Mysterious Encounter

As they played with their new instruments, the parrot from their earlier adventure appeared, squawking and fluttering around them. The parrot seemed excited by the music and led them to a hidden grove deeper in the jungle. There, they discovered an old stage made of stone and wood, with markings that matched the musical notes they had seen in the cave.

Playing the Jungle Music

The friends realized the stage was used by the early islanders for musical performances. They decided to perform a concert using their handmade instruments. As they played the sequence of notes from the cave, the stage began to resonate, and the surrounding jungle seemed to come alive with sound. Animals gathered around, adding their natural sounds to the music.

Excited by their discoveries, the friends decided to bring the joy of music back to their village. They wanted to show everyone how to make their own instruments and share the fun they had in the Musical Jungle. They planned to organize a grand STEAM Festival where they could teach other children how to make instruments, share their adventures, and celebrate the wonders of Science, Technology, Engineering, Art, and Mathematics.

Activity Guide: DIY Musical Instruments

TEACHING STRATEGY:

Drum Making:

1. Stretch a balloon over the opening of the container.
2. Secure it tightly with a rubber band.
3. Decorate the container with markers or stickers.
4. Use wooden sticks or spoons as drumsticks.

Maracas:

1. Fill the plastic eggs or small containers halfway with rice or beans.
2. Close the container securely and tape it shut.
3. Decorate with markers or stickers.
4. Shake to create sound.

Tambourine:

1. Place a handful of dried beans or rice between two paper plates.
2. Staple or glue the plates together, ensuring they are securely sealed.
3. Decorate the plates with markers or stickers.
4. Shake the tambourine to make music.

String Instrument:

1. Stretch rubber bands of different sizes around the tissue box opening.
2. Place a ruler or wooden stick under the rubber bands on one side to elevate them.
3. Pluck the rubber bands to create different sounds.
4. Decorate the tissue box.



STEAM Extensions:

SCIENCE

- **Sound Exploration:** Discuss how sound is made by vibrations. Demonstrate this by plucking rubber bands or tapping the drums.
- **Materials Experiment:** Try using different materials (different types of containers, different fillings for maracas) and observe how the sounds change.

TECH

- **Recording Sounds:** Use a tablet or smartphone to record the different sounds made by the instruments. Play them back and discuss the differences.
- **Sound Apps:** Use simple sound-based apps that allow children to create and explore different sounds and music.

ENGINEER

- **Instrument Design:** Encourage children to think about how they could improve their instruments. What other materials could they use? How can they make the sound louder or softer?
- **Building Structures:** Build a small stage or performance area using building blocks where the children can play their instruments.

ART

- **Instrument Decoration:** Let children use paint, stickers, and other craft materials to decorate their instruments, making them unique and personal.
- **Music and Movement:** Create a dance or movement routine to accompany the music made by the instruments.

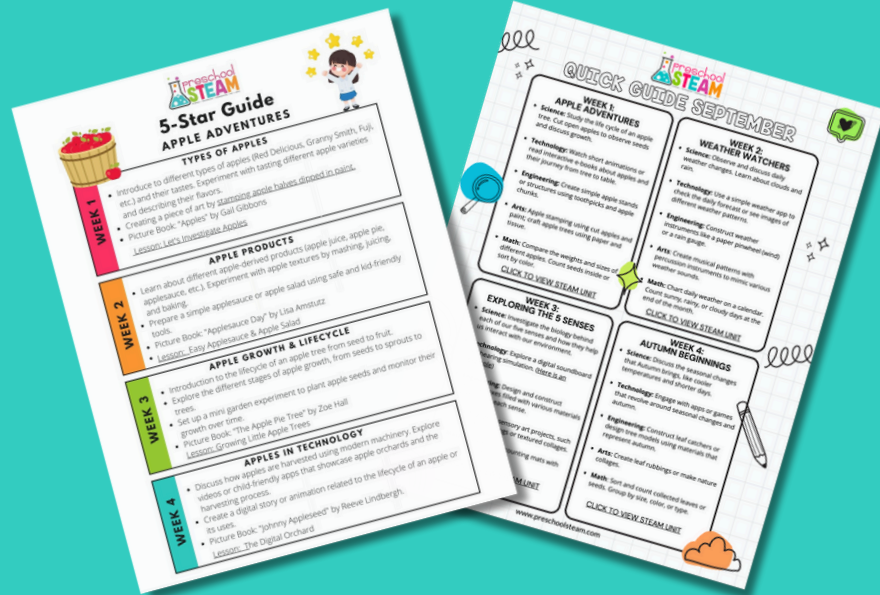
MATH

- **Counting Beats:** Teach children to count beats while playing their instruments. Use simple rhythms and patterns.
- **Measuring Sound Levels:** Use a simple decibel meter app to measure how loud or soft different instruments and playing techniques are.

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