

# ART-INFUSED STEAM TOUR

## A SELF-GUIDED EXHIBITS TOUR

### OUTDOOR SCIENCE PARK

1. Find the **Petrified Tree**. Feel the surface. How does the texture feel compared to a non-petrified tree? What colors do you see? What do you think was the original color of the wood before it petrified?
  
2. Visit the **Musical Forest**. Break up into groups of musicians and dancers. Experiment with the different instruments, and take turns creating sounds, rhythms, and movements.

### LEVEL 4M: ROSE HALL OF BIRDS

3. Find **The Art of Flying** panel and observe the different wing shapes of birds. Choose one and draw it below. What do you find interesting about the shape? What type of flying does it indicate the bird does?
  
4. Birds are nature's composers. Near the stairs, listen to different bird calls, then find the **Language of Birds** exhibit. Can you copy a song or call from one of the birds by whistling, humming, or making other vocal sounds?

#### **LEVEL 4: T. BOONE PICKENS LIFE THEN AND NOW HALL**

5. Find the skin impression of a Hadrosaur at the **Tracking Families and Herds** exhibit. Feel the texture. How does it compare to modern animals? Does it remind you of a reptile or mammal?

Take a rubbing of the skin impression here with your pencil:

6. As you walk through the **Unearthing Fossil Diversity** exhibit, look closely at each of the fossils on display. What colors, shapes, and textures do you see? Draw one of your favorites below. What do you like about it?

#### **LEVEL 4: EXPANDING UNIVERSE HALL**

7. At the **RGB Colors of Light** exhibit, take turns adjusting the levels of the primary colors of light, Red, Blue, and Green. What colors can you create? What happens when you add equal parts of all three? How are the primary colors of light different from the primary colors of paint?

8. Find the **Stars, In a Class of Their Own** panel. The colors of light an object in space will give off can tell us about how far away the object is, what it is made of, and what temperature it is. What color is our sun? What other colors of stars can you find? What color stars have the hottest temperatures? What colors have the coolest?

### **LEVEL 3: TOM HUNT ENERGY HALL**

9. Find the **Argon Plasma** tube. Observe how the movement of the magnet affects the Argon Plasma inside. Draw some of those movements here:

10. Imaging the earth is critical to finding resources. What are some of the types of imaging we can use? Below, draw how you think your city might look from above:

### **LEVEL 3: LYDA HILL GEMS AND MINERALS HALL**

11. As you walk through the **Lyda Hill Gems and Minerals Hall**, select two minerals to describe and draw below:

Mineral Name: Color - Shape - Texture

Mineral Name: Color - Shape - Texture

12. Can you find any minerals affected by light? List them and explain how and why they are affected.

### **LEVEL 3: THE REES-JONES FOUNDATION DYNAMIC EARTH HALL**

13. Learn about the different types of clouds at the **Cloudy With a Chance of Rain** exhibit, then walk over to the windows by the staircase. Do you see any clouds? Draw them in the space below:

If the sky is clear, draw your favorite type of cloud and explain why you chose it.

14. Examine the rocks displayed on the **Land** wall located next to the **Earthquake Simulator**. Using the information on the panel at the base of the wall called **Earth Recycles**, find an example of each type of rock listed below and describe it. What colors do you see? What shapes and textures?

Igneous:

Sedimentary:

Metamorphic:

### **LEVEL 2: DISCOVERING LIFE HALL**

15. An animal's appearance is important to its survival. Look at the various animals in the glass cases. How might the colors and patterns of their skin, fur, or feathers help them in their natural habitats? List three below.

16. Visit each of the dioramas representing a Texas ecoregion. Observe the differences between the plants and animals from region to region. Draw and label a plant or animal from each ecoregion.

Piney Woods:

Chihuahan Desert:

Blackland Prairie:

## **LEVEL 2: BEING HUMAN HALL**

17. Make a mask of your face using the wire pieces provided. Observe how different cultures emphasize human facial features in different ways in the masks displayed. What features do you want to emphasize?
18. Visit the **Interactive Voice Visualization** area. Using the microphones and various tones, sounds, volumes, and pitches, create different colorful patterns with your voice. How do the shapes change when you change your volume? How do the colors change when you change your pitch? How do the patterns change when you change your tones and words?

## **LEVEL 2: TEXAS INSTRUMENTS ENGINEERING AND INNOVATION HALL**

19. Find the **Trusses** and **Structures** table. Using different shapes, create bridges and buildings that can withstand stress and pressure. What shapes are stronger? What shapes are weaker?

20. Discover how science and art can make beautiful music together by visiting the **MIDI Sound Studio Level**. Work together as a group to create music and sound effects using digital electronics.

## **LOWER LEVEL: LAMAR HUNT FAMILY SPORTS HALL**

21. Stop by the **Motion Lab**. Perform a pirouette or other dance move. Call up your video on one of the computers. Compare your movement with the ballerina or one of your classmates. If you could represent your movement with a simple line, what would it look like? Draw it in the space below:

22. Visit the **Reflexes** activity. How fast are your reflexes? Hand-eye coordination and spatial awareness are important skills for performers.

## **FINAL THOUGHTS**

23. What is one thing, new or surprising, you learned and experienced today?

24. Which hall or activity did you enjoy the most?