

## Half hour Fun Scavenger Hunt

Page 1. Note: If you see \*\*\* that means do whatever the directions are and have a teacher, parent, chaperone, or explainer check and initial that you did it.

**Go to the “Parachute Launch” area.**

1. Launch a parachute. \*\*\* \_\_\_\_\_

**Find the “Kaleidoscope” display.**

1. **Go under and inside.** How many of **you** do you think you see?

a. 6      b. an infinite number      c. one      d. 30      \_\_\_\_\_

**Go to the “Dam the Creek” Area**    **Read the information.**

1. **Build a dam as high as you can.** \*\*\* \_\_\_\_\_ Does it hold the water back? Yes/no \_\_\_\_\_

**Find the “Minimal Surfaces” exhibit area.**

1. Use the wands near the wall and make a 3 dimensional shape. Poke it with your finger.\*\*\* \_\_\_\_\_

2. Use the circle with the handles and make a bubble. Move it up and down. Is the bubble:

a. rigid      b. hard      c. elastic      d. rough      \_\_\_\_\_

**Go to the “Tornado/ Fountain” area**

1. Make a tornado in the bottle. \*\*\* \_\_\_\_\_

**Find the “Physics of Sound” area**

1. Put the tubes in order and try to play a tune that can be recognized.

\*\*\* \_\_\_\_\_ Try to play “Happy Birthday to You.”

**Head over to the “Sand Pendulum”.**

1. Use the brush and clean sand from the table. Follow the directions and make a design with both pendulums. Do they both produce the same design? Yes/No\_\_

## Find the “Super Bounce” Activity area.

**1. Follow the directions.** PLEASE DO NOT TOSS BALLS UPWARD.

Hold the balls up as high as you can and release them. Observe.\*\*\* \_\_\_\_\_

2. These balls must obey the laws of **conservation of**: a. electricity  
b. heat c. momentum and energy d. magnetism \_\_\_\_\_

## Go to the “Tennis Ball Launcher.”

1. Launch the tennis ball to the ceiling several times. Does it always reach the metal beam? Yes/No \_\_\_\_\_

2. Try to launch the tennis ball so that it only goes ½ way to the ceiling. \*\*\* \_

## Go to the “Can you lift 100 pounds” exhibit.

1. Try each rope. Which is the easiest rope to use to lift 100 lbs. ? \_\_\_\_\_

a. yellow b. red c. Blue d. Green

2. If you had a lot of pulleys, strong rope, and someone who knows how to set up the pulleys, do you think it possible that you could lift a piano? Yes/no \_\_\_\_\_

## Go to the “Whisper Disk”

**1. Follow the directions. Pick 3 numbers from 1 to 100. Say them in a whisper. Have another person listen at the other “Whisper disk”.**

**How many of the numbers did they hear correctly?**

a. One b. Two c. Three d. Four e. none \_\_\_\_\_

2. The “Whisper disk” is like a big: a. ear b. mouth c. nose d. elbow

**Find the “Gravity Racer” activity.**

1. Predict (educated guess) which track will cause the ball to get to the bottom first. Try it.

- a. Red    b. Yellow    c. Blue    d. Silver    \_\_\_\_\_

**Go to the “Crank Power” display.**

1. Hook the BLUE wire to the radio, the RED to the fan, and the YELLOW to the head light.

Crank each one. Which is the hardest to crank? a. blue    b. red    c. yellow \_\_\_\_\_

2. Which is the easiest to crank? a. blue    b. red    c. yellow \_\_\_\_\_

3. Would you be able to power all the electrical appliances at one time in your house with one large crank? Yes/ No \_\_\_\_\_

**Go to the “Catenary Arch” (Red blocks).**

1. Put the blocks on the board with the black stripes on the inside. Lift the board slowly and try to get the arch to stand on its own. \*\*\* \_\_\_\_\_

2. There is a real Catenary arch that you can go into in:

- a. Los Angeles    b. New York    c. Lancaster    d. Saint Louis \_\_\_\_\_

Now GENTLY knock down the arch.

**Gravity Well (Looks like a large funnel.)**

1. Roll a ball around the outer rim of the gravity well. Observe. \*\*\* \_\_\_\_\_

2. Does the ball go faster or slower as it nears the hole? \_\_\_\_\_ (faster, slower)

**TRY THE PUZZLES**

(Found between the “Dam the Creek” and the “Parachute Launch”).

Try at least 3 (three) of these. Which ones did you complete successfully?

1. \_\_\_\_\_ 2. \_\_\_\_\_ 3. \_\_\_\_\_

**\*\*\*If you have extra time, make a paper airplane following the directions and launch it. \_\_\_\_\_**

