



CHILDREN'S
MUSEUM
— OF VIRGINIA —
PORTSMOUTH

MOTION Scavenger Hunt

“**Motion**” means movement. Describe some ways that an object can move:

A swing on a playground moves _____ and _____.

A bowling ball _____ and a wheel goes _____.

An elevator moves _____ and _____.

When a guitar is played, the string is plucked (pulled) and it shakes back and forth really fast. This shaking produces a sound and is called _____.

Motion can be seen and created in many different exhibits within the museum. Start on the first floor and follow the train tracks on the floor into the Train Room.

What do you see on the trains that move? _____

What kind of movement is shown? _____

Find the buttons along the outside of the layout gates. Press them for 1 minute and describe what you see.

Follow the tracks on the floor out of the train room and into the Fire Station. What is inside of the Fire Truck that moves? _____ What is on the outside of the Fire Truck that moves? _____

Walk to the Music Shop, where you'll hear noise and music. Gently strike the fence, the road signs, the trash cans, and the yellow pipes. Then pluck the strings on the Zither. What kind of movement is causing this noise? _____

Find the Tugboat and climb aboard. When this object is turned to the left or to the right, what happens to the tugboat?

Step into the Bubble Room and into the “Step in the Bubble.” _____ on the rope to make the bubble move up and around you.

Make your way to the Second Floor Exhibits. In *CreARTivity*, find the "Zoetrope" and the "Mutoscope." What must you do to make them move? _____

What kind of motion are they showing? _____

Walk to *My Back Yard and Beyond* and find the Seasons exhibit. PUSH and PULL to see what happens to the animals throughout the seasons.

Follow the path to the Vortex. Describe how it is moving.

Move into *Dr. Force's Travelling Energy Extravaganza*.

Find "Harry Elephante." When you push down on the handle, what happens to the elephant?

Next, go to "Newton's Cradle," and pull one ball and gently let it go. How are the rest of them moving? _____

Walk to the "Fantastic Motion Machine" and describe the motion that you see.

Look for the big hot air balloon in the middle of "Fluid Dynamics." How does it move?

In the "Catch a Wave" room, there are 3 exhibits in which you can hear sounds. Sound is created by which kind of motion? _____

To use the "Tuning Fork," gently strike it with the rubber mallet and place your ear next to the Tuning Fork.

With "Gaussian Melody," you will hear a sound when you slowly turn the triangle. The steel balls strike the nails and the sound is created as the nails vibrate.

Try the "Sound Tube" by pressing the yellow button, then slowly turning the dial. Can you hear the changes in the sound? Watch the Styrofoam balls in the tube as the dial is turned. This is a way to SEE the sound created by a vibration.