

Name _____

C. Activity Guide.

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.**

Find the “SuperBounce” 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. Hold the balls at waist height. Release them. Observe. *** _____

Which drop (number 1 or number 2) has the balls go highest? _____

3. These balls must obey the laws of **conservation of**: a. green eggs and ham b. gravity and lift
c. momentum and energy d. electricity and 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. Pascal explained how this works many years ago. Does he treat the air as if it is a liquid?
Yes/no _____

3. Try to launch the tennis ball so that it only goes ½ way to the ceiling. *** _____

Find the “Physics of Sound” area

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

2. Move the tubes around or replace some of them. Now try to play a tune.
Is it harder or easier than before? _____

Go over to the “earthquake” exhibit.

1. Build a building out of at least 12 blocks and at least 3 blocks high but containing no rods.
Turn on the earthquake machine. Did it hold together? Yes/no _____

2. Build a building like above but this time put rods in it. Turn on the earthquake machine.
Did it hold together a. better Or b. worse than the first one? _____

3. What else could you do to improve your earthquake resistant building? *** _____