

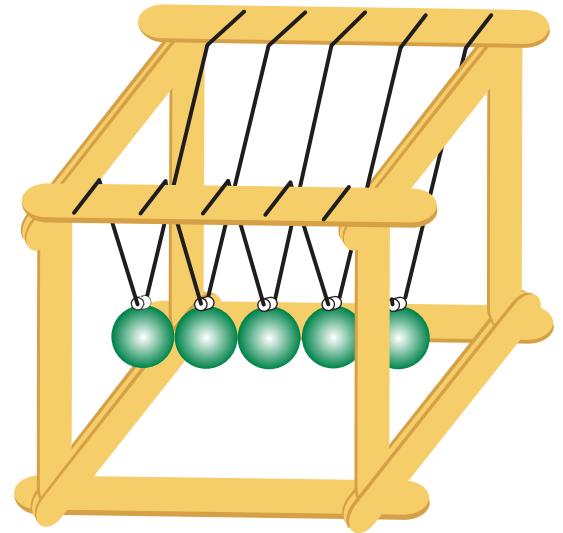
ATX: TRAIN LIKE AN ASTRONAUT.



ATX® is the all-new Astronaut Training Experience® at Kennedy Space Center. When you sign up for ATX, you learn how to live and work in space, using immersive simulators and virtual reality technology. You'll be part of a crew that blasts off to explore Mars, and even get to experience a spacewalk in a microgravity simulator.

At ATX, you'll also learn the importance of Newton's three Laws of Motion. It is these laws that drive rocket propulsion and enable astronauts to move effectively in space. To get ready for ATX, work with a small group of classmates to build a machine that demonstrates Newton's Laws of Motion—a Newton Cradle!

1. Cut your straw into five pieces small enough to fit on top of the marble. You will thread your string through the straw.
2. Use the hot glue to secure the pieces of straw to the top of each marble and let dry.
3. Build your frame using the craft sticks and hot glue. Think about the video you saw and check out this example at right.
4. Once the frame is dry, thread your string through the straws and attach the marbles to the frame. **Tip:** Make sure the marbles are touching when they are at rest!
5. Put your machine into action!



Now answer these questions:

1. How does your cradle demonstrate Newton's Laws of Motion? _____
2. What was the most difficult part about building the cradle? _____
3. How can you improve your design? _____



Take your learning one step further and enjoy the adventure of a lifetime! Nowhere else on Earth can you experience astronaut training but at Kennedy Space Center. In the all-new Astronaut Training Experience (ATX), you can train to live and work in the Martian environment through exciting and immersive simulation technology. Join the crew as you complete a mission simulation including launching, landing, and walking on Mars, and experience a spacewalk in a microgravity simulator. For details, visit [KennedySpaceCenter.com/atx](https://www.kennedyspacecenter.com/atx)