



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 create a simple or compound machine that demonstrates Newton's Laws of Motion. Follow the engineering design process to create your plan, using the chart at right.

Now, answer these questions:

1. Describe your machine. _____

2. Which Law(s) of Motion does it demonstrate?

3. What improvements did you make to your machine?

4. How could your machine help astronauts do their work in space or on Mars?

Name

Stem Challenge

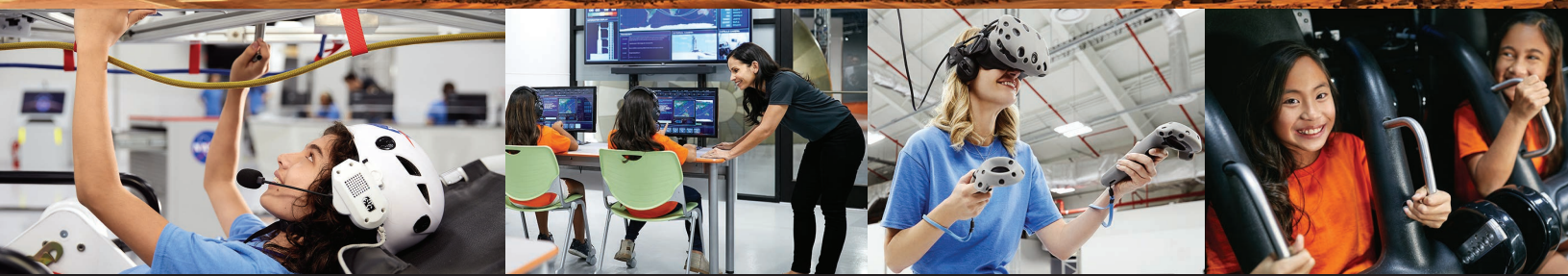
Ask

Imagine

Plan

Create

Improve



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)