



PRE-FIELD TRIP INTRODUCTION



So you're coming to iFLY...

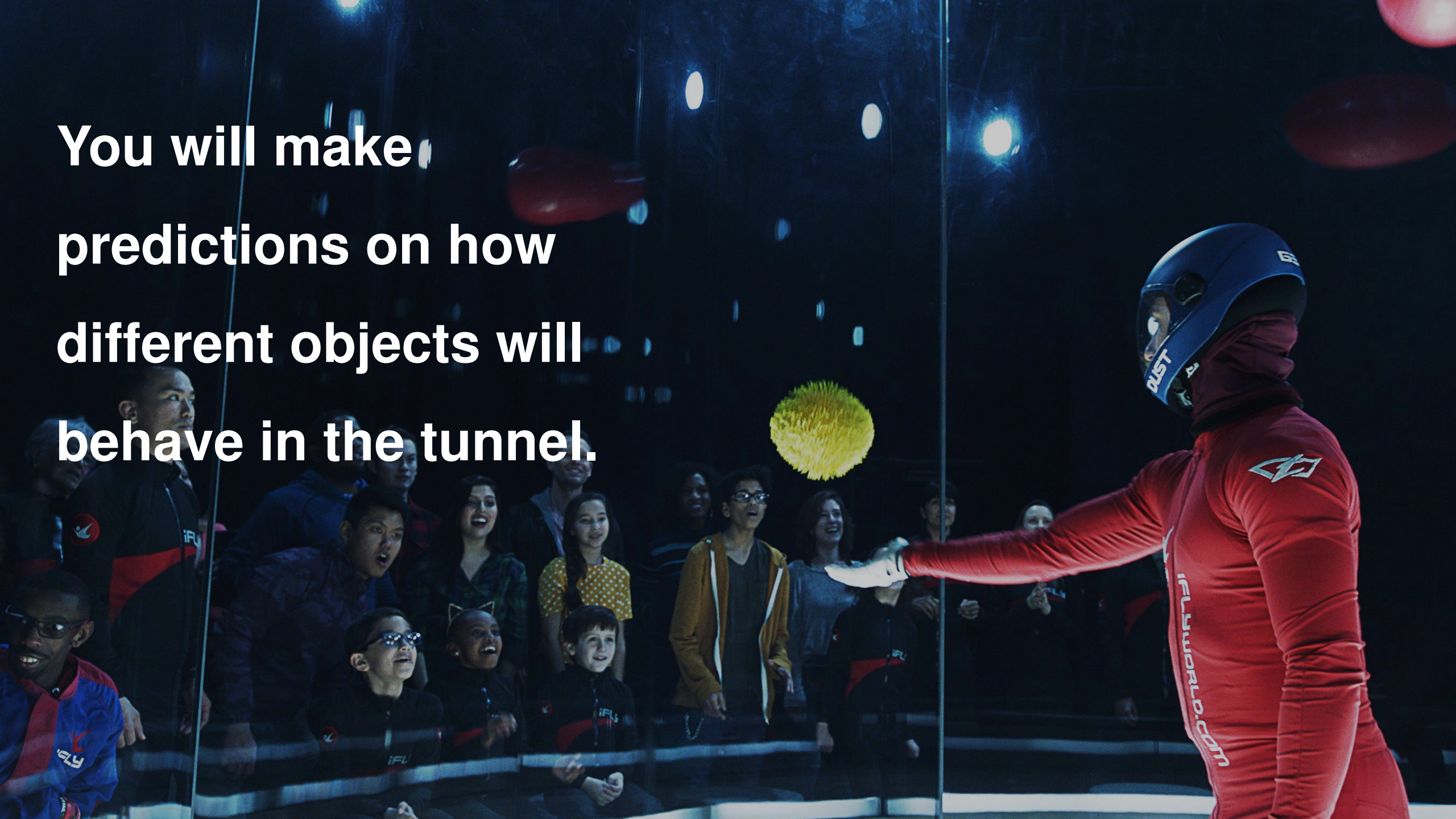
**What should you expect
during your field trip?**

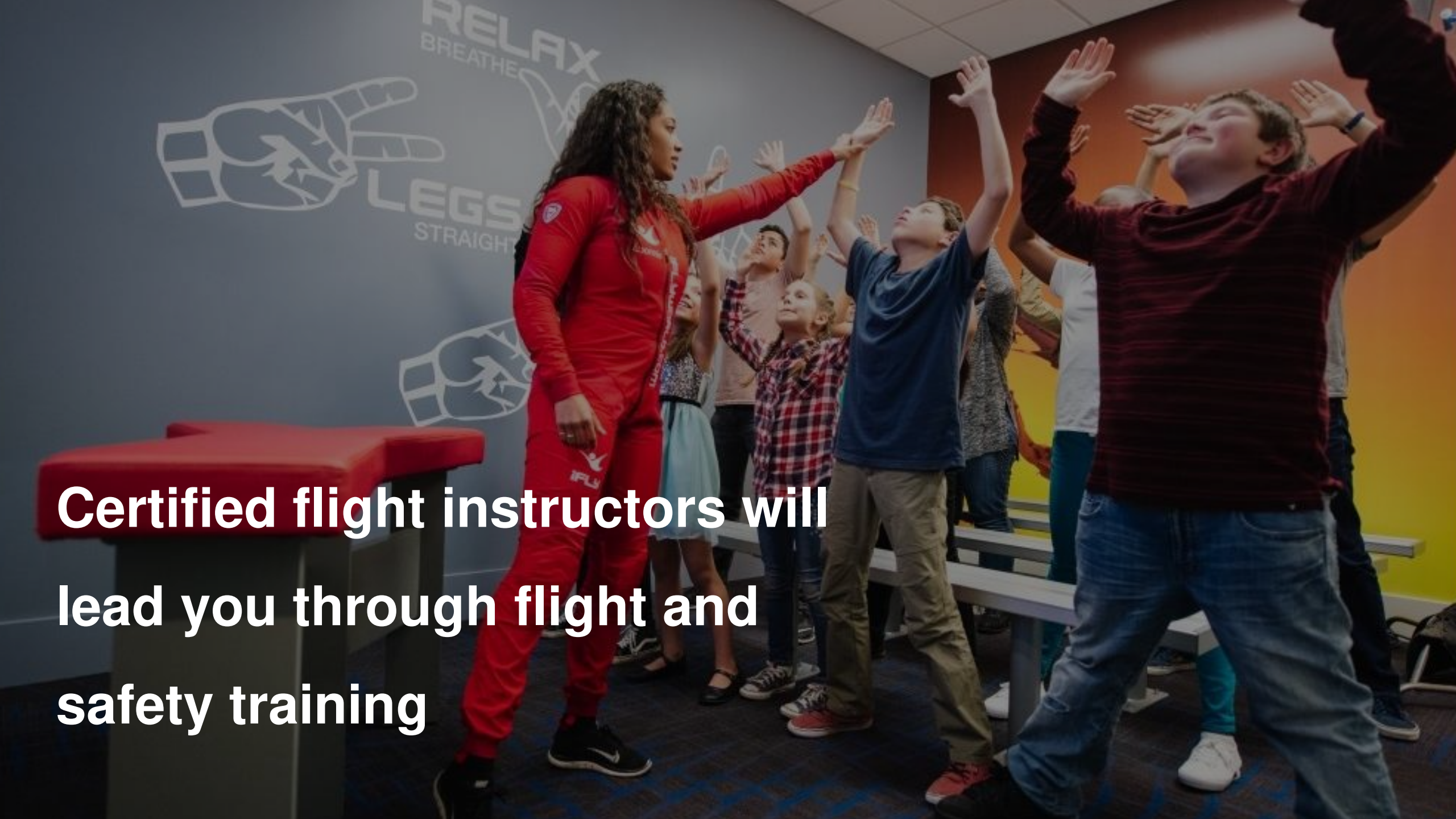


You will learn about
the *science* and
engineering involved
in our wind tunnels.



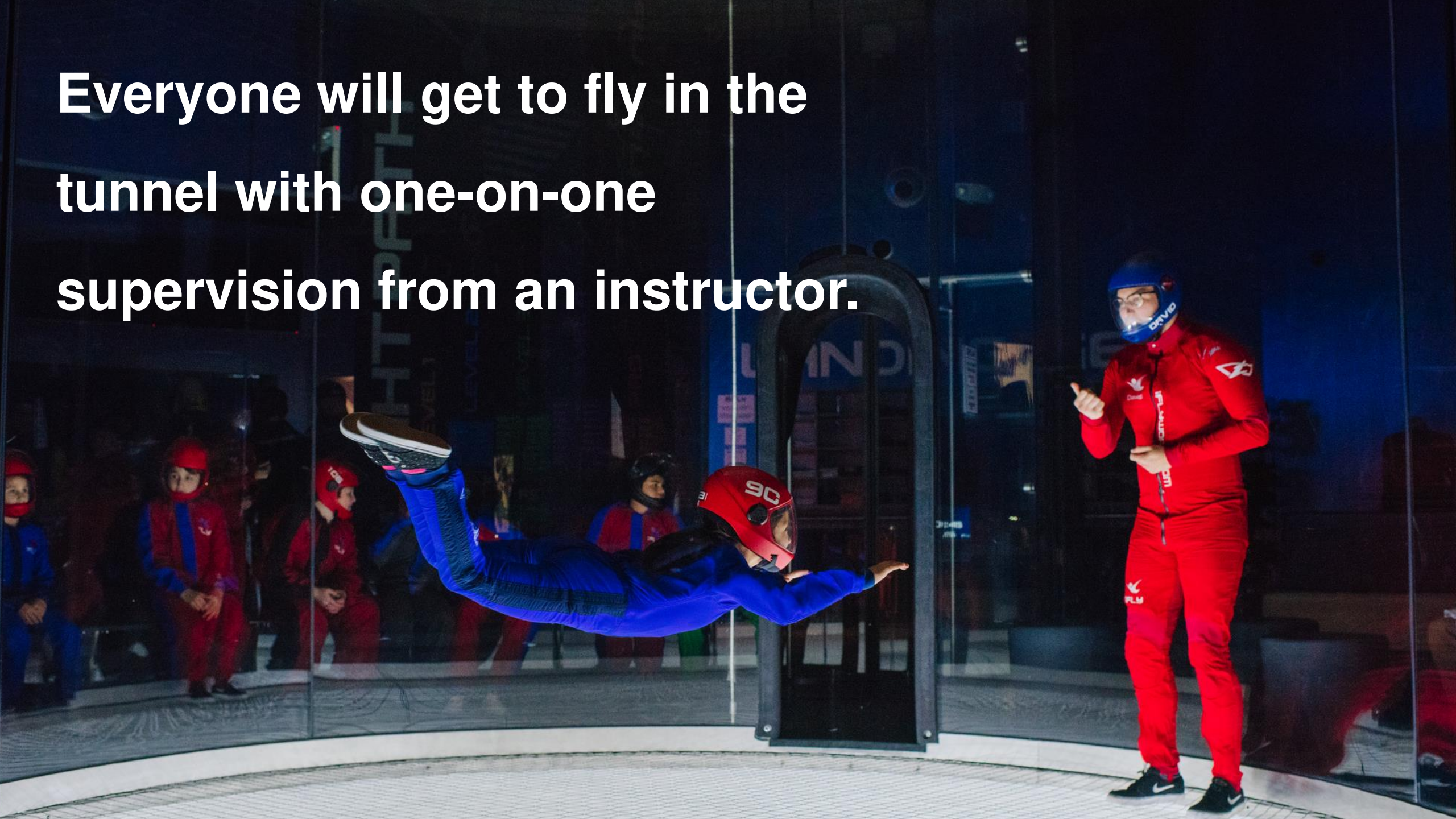
**You will make
predictions on how
different objects will
behave in the tunnel.**



A female flight instructor in a red jumpsuit is leading a group of children in a flight training exercise. The children are standing in a line, with their arms raised and heads tilted back, mimicking a flight posture. The background features a wall with large white text and graphics: "RELAX BREATHE" at the top, "LEGS STRAIGHT" in the middle, and a graphic of a hand with fingers spread. The floor is blue and grey patterned. A red padded bench is visible on the left.

**Certified flight instructors will
lead you through flight and
safety training**

**Everyone will get to fly in the
tunnel with one-on-one
supervision from an instructor.**



The background is a dark blue gradient with various faint, light blue scientific and mathematical illustrations. These include a 3D coordinate system with x, y, and z axes, a chemical structure of a substituted benzene ring with labels like HO, H3C, and Cl, a graph of a curve passing through the origin, a 3D rectangular prism, a circular diagram with internal structures, and various lines and arrows representing scientific concepts.

**Here are a few STEM concepts to
think about before you come...**

**What forces are at work
on your body when
flying in the tunnel?**



You'll learn about frontal area. This is the part of an object's surface area that the wind "sees".

Changing your frontal area in the wind tunnel will change how you fly.



**This flyer is presenting
a large frontal area to
the wind.**



**This flyer is presenting
a smaller frontal area to
the wind.**



**How would you find the frontal
area of the basketball?**



**How is it different from the
surface area of the basketball?**



What questions do you have?





iFLY®

