



PRE-FIELD TRIP INTRODUCTION



So you're coming to iFLY...

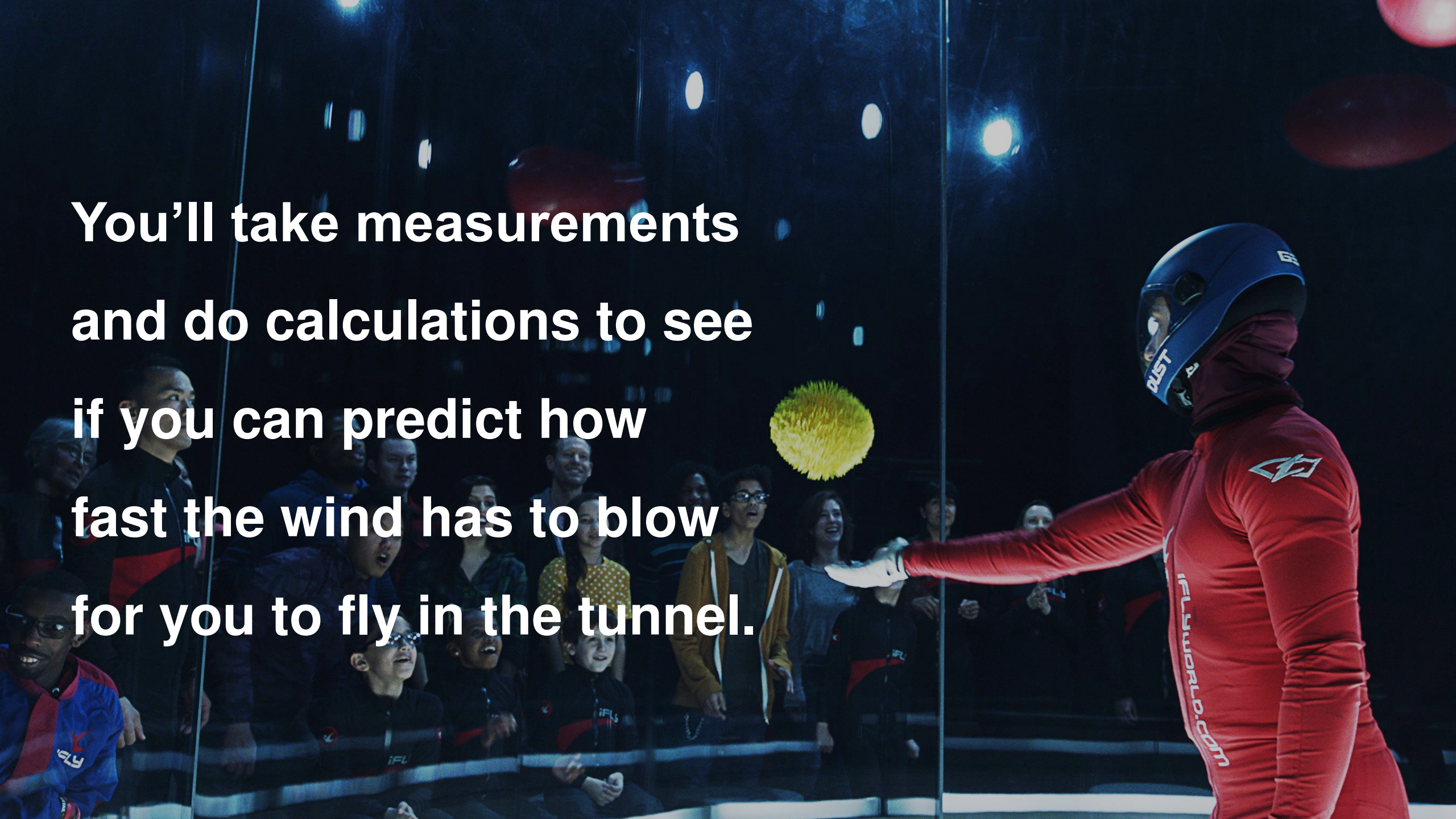
**What should you expect
during your field trip?**

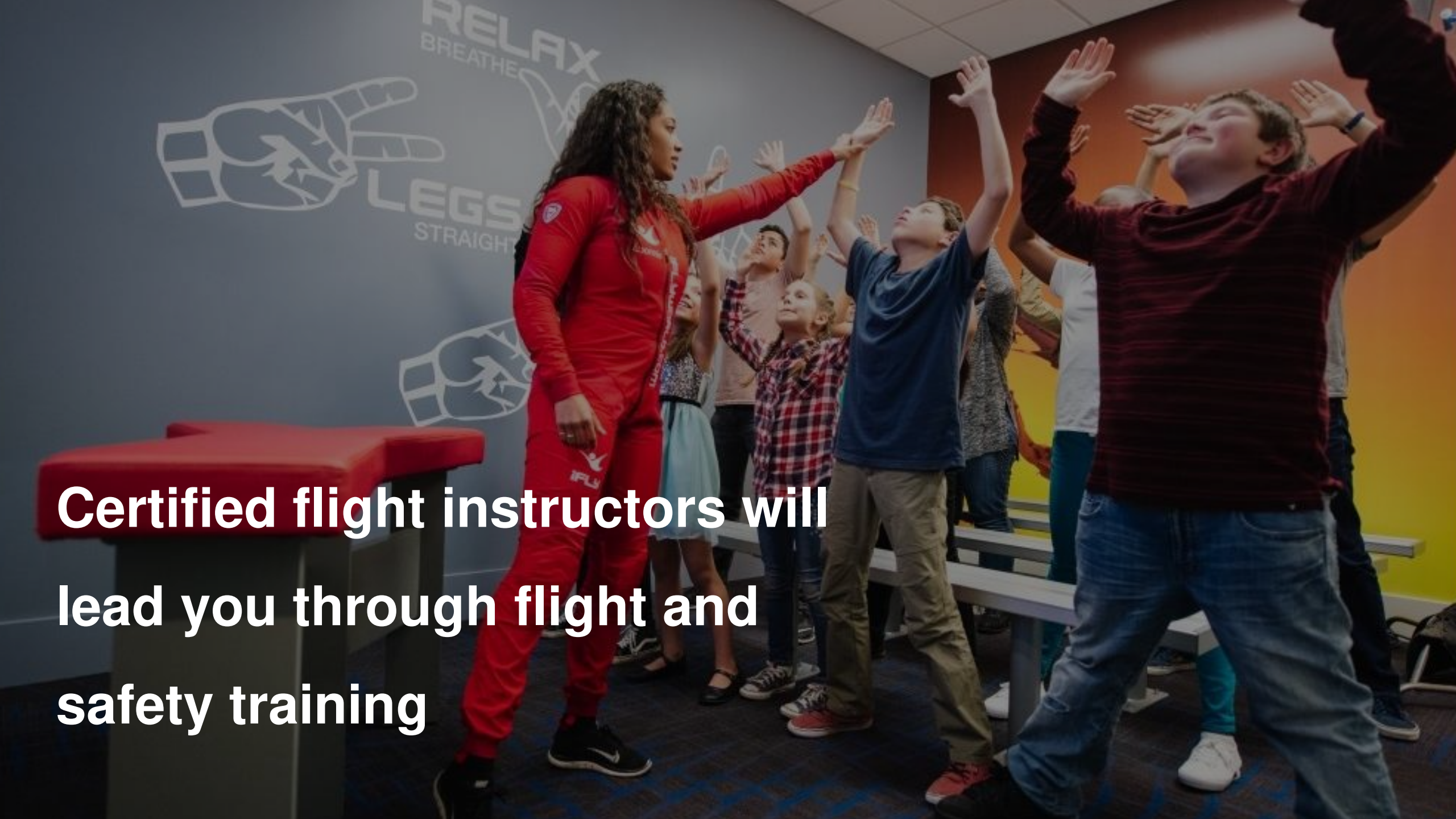


You will learn about
the *science* and
engineering involved
in our wind tunnels.



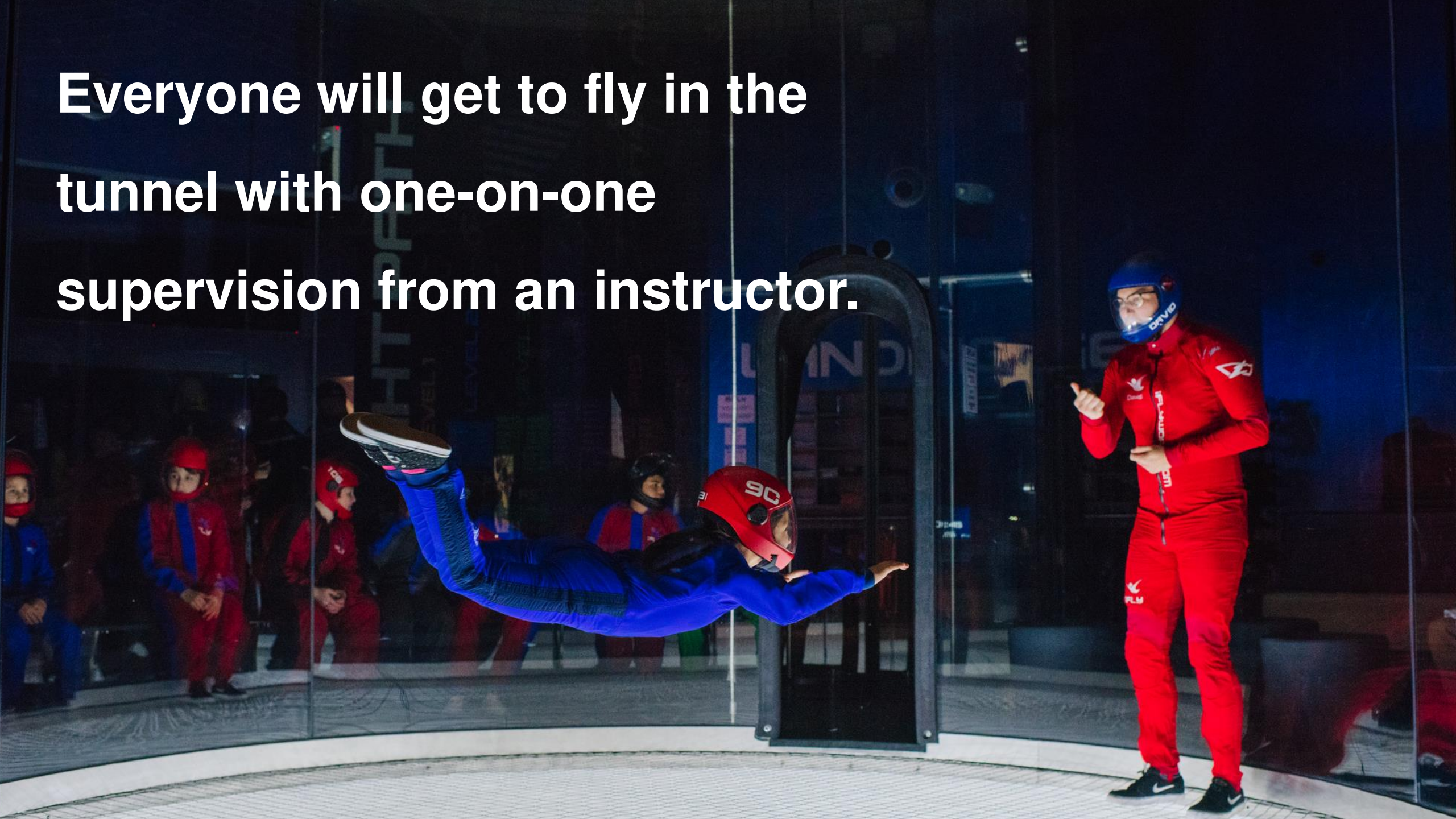
**You'll take measurements
and do calculations to see
if you can predict how
fast the wind has to blow
for you to fly in the tunnel.**



A 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, stylized text and graphics. The text includes "RELAX BREATHE" and "LEGS STRAIGHT". The graphics include a hand with fingers spread and a leg with a foot. The instructor is wearing a red jumpsuit with "IFLU" on the leg. The children are wearing various casual clothing. The setting appears to be an indoor training facility with a blue carpet and a white bench.

**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 sketches. These include a coordinate system with a curve, a chemical structure of 4-chloro-3-hydroxyacetophenone, a 3D rectangular prism, a circular diagram with four quadrants, and a diagram of a cell or microorganism. The text is centered in a bold, white, sans-serif font.

**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?**



What is *terminal velocity*?

What does it mean
for a skydiver?

What does it mean
for an iFLY-er?



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®

