



PRE-FIELD TRIP INTRODUCTION



So you're coming to iFLY...

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

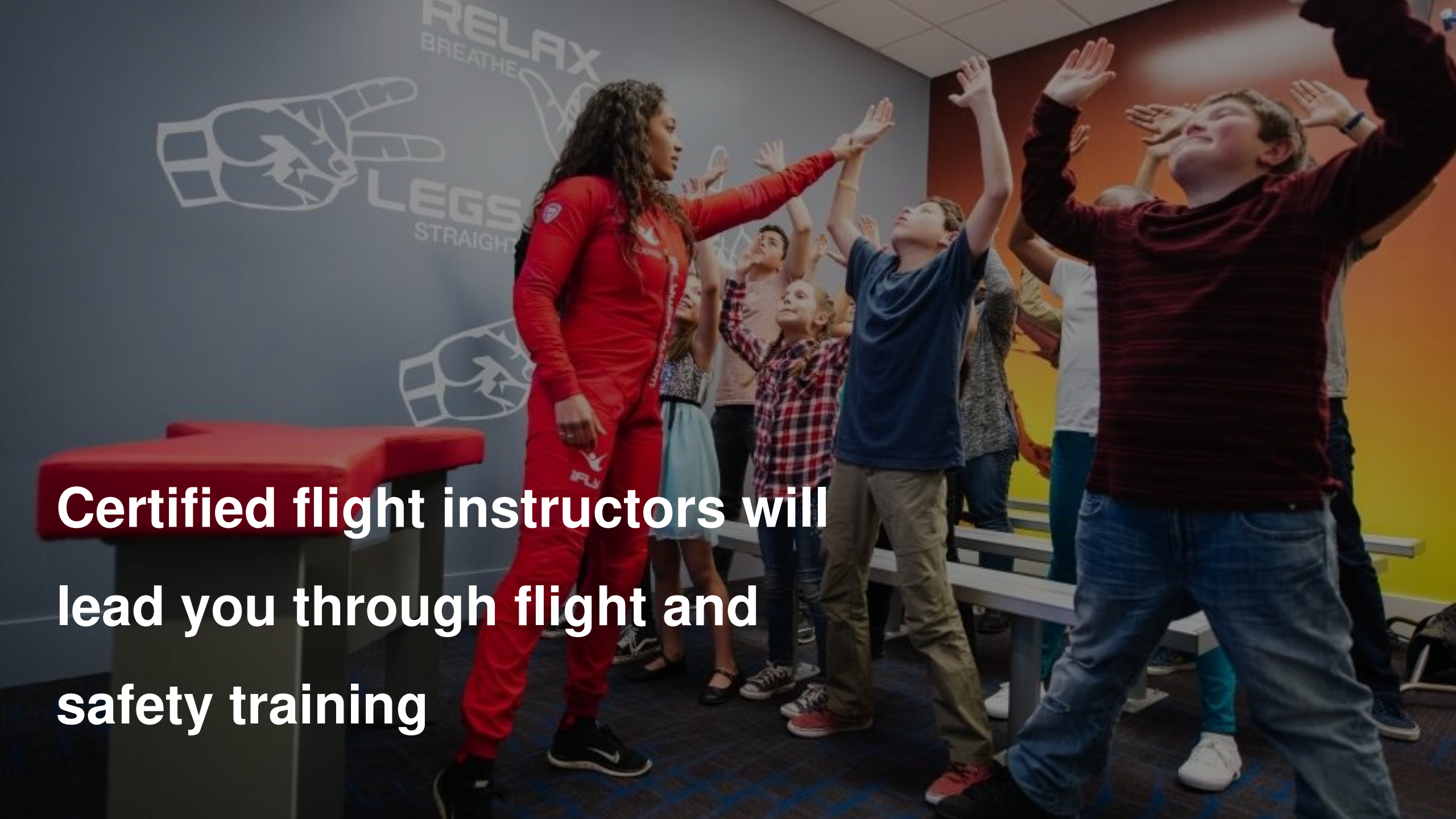


You will learn about
the *science* and
engineering involved
in our wind tunnels.



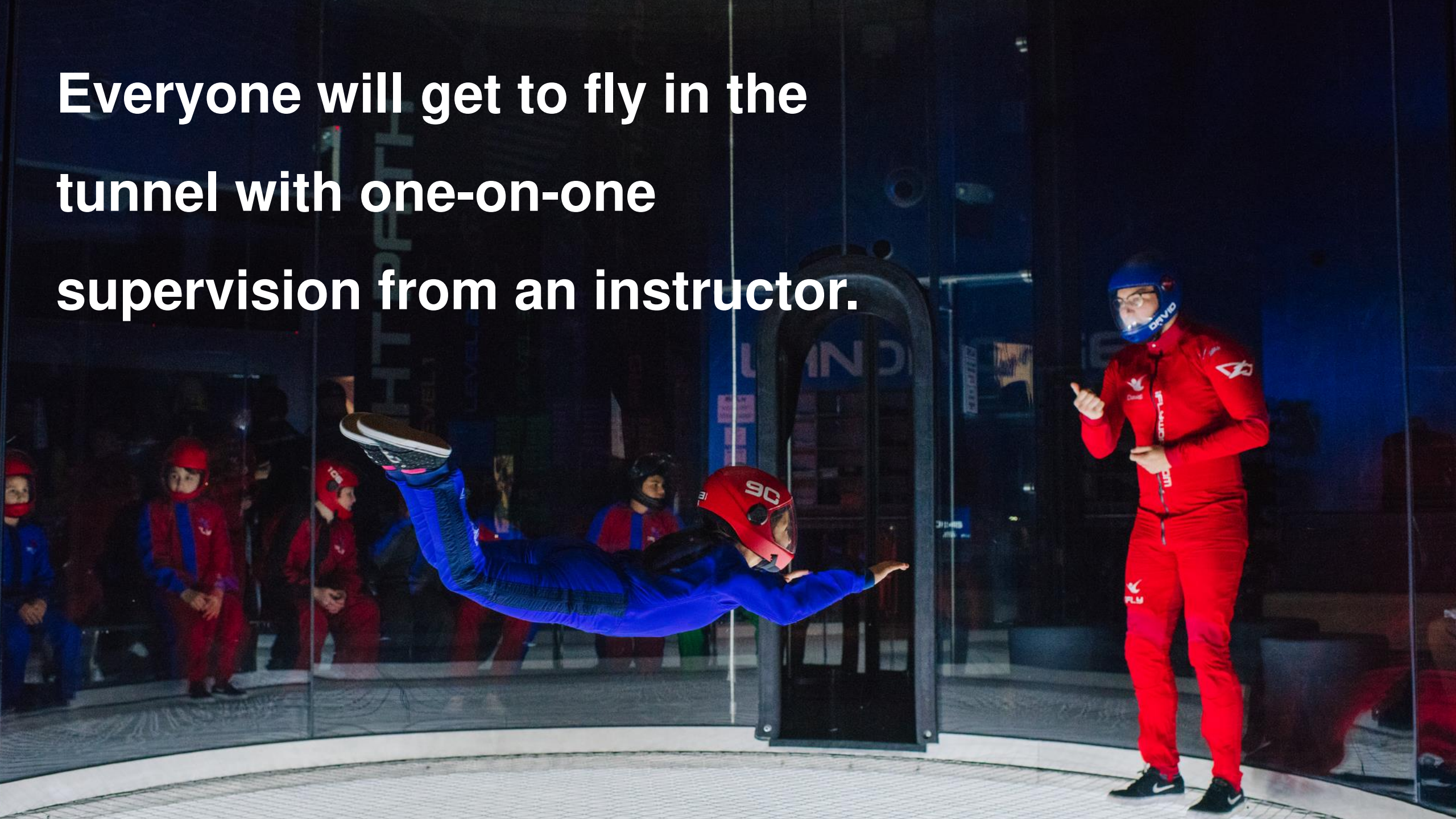
**You'll take measurements
and do calculations to see
if you can predict how
fast the wind has to blow
for you to fly in the tunnel.**

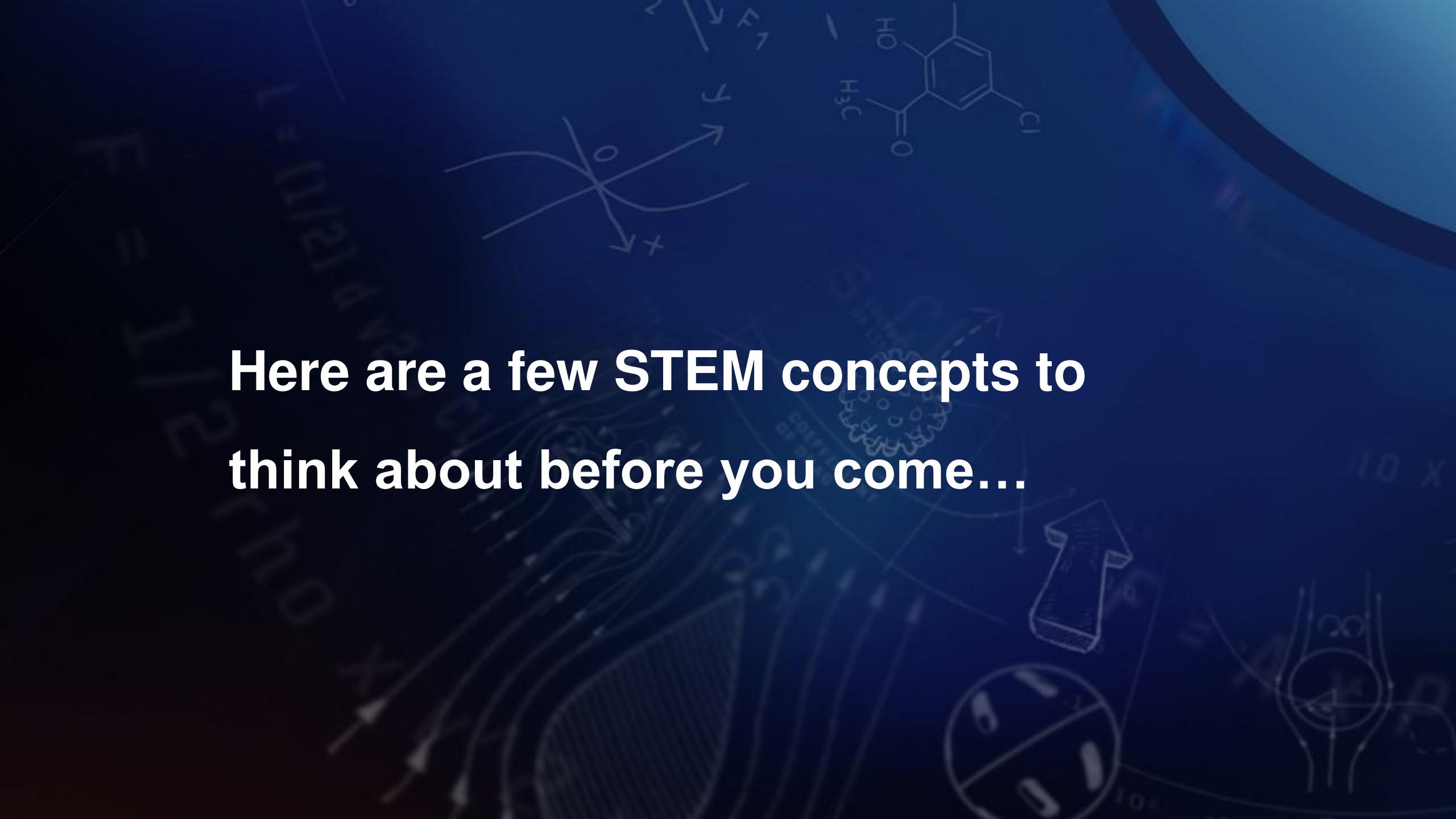




**Certified flight instructors will
lead you through flight and
safety training**

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 STEM-related diagrams. These include a 3D coordinate system with x, y, and z axes, a chemical structure of a substituted benzene ring with a hydroxyl group (HO), a methyl group (H3C), and a chlorine atom (Cl), a 3D arrow pointing upwards, a circular diagram with internal lines, and a diagram of a joint or mechanical part. 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®

