



iFLY Education Program
 Arizona Elementary School Standards Alignment
<http://www.azed.gov/standards-practices/>

Field Trip Activity	Standard
<p>Interactive Presentation:</p> <ul style="list-style-type: none"> • Identify the differences between solids and fluids. Discuss the different ways solids and fluids exert forces on objects • Identify the forces acting on a flyer (gravity and the force of air), and determine which direction those forces are pushing or pulling on the flyer • Observe and describe the behavior of a variety of objects in the wind tunnel. Predict which objects will fly at faster velocities and justify your predictions with evidence • Educator leads a discussion about engineering careers, the engineering process as applied to the design of iFLY tunnels, and other applications of wind tunnels in STEM 	<p>2.P1U1.1 5.P2U1.3 5.P2U1.4 5.P2U2.5</p>
<p>LAB ACTIVITY</p> <ul style="list-style-type: none"> • Students break into small groups to investigate parachutes • Students first build a basic parachute, then decide on an area to investigate • Students identify one variable they want to change, describe how they will change it, and predict what effect this will have on their parachute's behavior. • Students use measuring tapes, scales, and stopwatches in their investigations • Students record data during their parachute launches • Students discuss possible reasons for their results 	<p>1.P3U1.3 5.P3U2.5 K.MD.A.1 1.MD.A.1 2.MD.A.1 3.MD.A.2 4.MD.A</p>
<p>Post-field trip classroom activity</p> <ul style="list-style-type: none"> • Students conduct an investigation about parachutes, collecting multiple data samples • Students plot their data on a graph • Students use the graph to discuss the overall trend of their results 	<p>1.MD.C.4 2.MD.D 3.MD.B 5.G.A.2</p>