



iFLY Education Program  
Ohio Elementary School Standards Alignment

<http://education.ohio.gov/Topics/Learning-in-Ohio/OLS-Graphic-Sections/Learning-Standards>

Field Trip Activity	Standard
<p>Interactive Presentation:</p> <ul style="list-style-type: none"> <li>Identify the differences between solids and fluids. Discuss the different ways solids and fluids exert forces on objects</li> <li>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</li> <li>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</li> <li>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</li> </ul>	<p>Science: K.PS.1, 1.PS.2, 2.PS.1, 3.PS.2, 5.PS.1</p> <p>Math: K.MD.2</p>
<p>LAB ACTIVITY</p> <ul style="list-style-type: none"> <li>Students break into small groups to investigate parachutes</li> <li>Students first build a basic parachute, then decide on an area to investigate</li> <li>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.</li> <li>Students use measuring tapes, scales, and stopwatches in their investigations</li> <li>Students record data during their parachute launches</li> <li>Students discuss possible reasons for their results</li> </ul>	<p>Science: 1.PS.2, 2.PS.1, 5.PS.1</p> <p>Math: K.G.5 1.MD.4, 2.MD.1, 2.MD.10 3.MD.2, 3.MD.3 4.MD.1, 4.MD.4 5.MD.2</p>
<p>Post-field trip classroom activity</p> <ul style="list-style-type: none"> <li>Students conduct an investigation about parachutes, collecting multiple data samples</li> <li>Students plot their data on a graph</li> <li>Students use the graph to discuss the overall trend of their results</li> </ul>	<p>Science: 1.PS.2, 2.PS.1, 5.PS.1</p> <p>Math: K.G.5, 1.MD.4, 2.MD.1, 2.MD.10, 3.MD.2, 3.MD.3 4.MD.1, 4.MD.4 5.MD.2</p>