

iFLY Education Program  
 Kentucky Elementary School Standards Alignment

<https://ngss.nsta.org/AccessStandardsByTopic.aspx>  
<https://kystandards.org/home/ky-acad-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><u>Next Generation Science Standards:</u>            3-PS2-1            3-PS2-2            4-PS3-1            5-PS2-1</p> <p>Kentucky Math Standards:            KY.K.G.1</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><u>Next Generation Science Standards:</u>            K-PS2-1K-PS2-2            3-PS2-1            K-2-ETS1-3            3-5.ETS1-1 and 1-3</p> <p><u>Kentucky Math Standards:</u>            KY.K.MD.1 and MD.2            KY.2.MD.1            KY.3.MD.2, 5, and 7            KY.3.G.1            KY.4.MD.3</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><u>Kentucky Math Standards:</u>            KY.1.MD.4            KY.2.MD.10            KY.3.MD.3            KY.5.MD.2</p>