iFLY Education Program
Florida Elementary School Standards Alignment
http://www.cpalms.org/Public/search/Standard

| Field Trip Activity | Standard |
|---|---|
| Interactive Presentation:<br>• Identify the differences between solids and fluids. Discuss the different ways solids and fluids exert forces on objects<br>• 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<br>• 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<br>• 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 | SC.K.P.12.1, SC.K.P.13.1, SC.K.N.1.2<br>SC.1.P.12.1, SC.1.P.13.1, SC.1.N.1.2 and 1.4<br>SC.2.P.13.3-13.4, SC.2.P.8.2-8.3, SC.2.N.1.3 and 1.6<br>SC.3.N.1.6, SC.3.N.3.2-3.3<br>SC.4.P.12.1-12.2, SC.4.N.1.4, SC.4.N.3.1<br>SC.5.P.13.1 and 13.3-13.4<br>SC.5.P.8.1 |
| LAB ACTIVITY<br>• Students break into small groups to investigate parachutes<br>• Students first build a basic parachute, then decide on an area to investigate<br>• 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.<br>• Students use measuring tapes, scales, and stopwatches in their investigations<br>• Students record data during their parachute launches<br>• Students discuss possible reasons for their results | MAFS.K12.MP.5<br>SC.K.N.1.1-1.2 and 1.5<br>SC.1.N.1.1-1.2 and 1.4<br>SC.2.P.13.1 and 13.3-13.4<br>SC.2.N.1.1-1.4<br>SC.3.N.1.1-1.2 and 1.6<br>SC.4.N.1.1-1.8<br>SC.5.N.1.1-1.6<br>SC.5.N.2.1-2.2 |
| Post-field trip classroom activity<br>• Students conduct an investigation about parachutes, collecting multiple data samples<br>• Students plot their data on a graph<br>• Students use the graph to discuss the overall trend of their results | SC.K.N.1.1-1.2<br>SC.1.N.1.1-1.4<br>SC.2.N.1.1-1.4<br>SC.3.N.1.1-1.3 and 1.6<br>SC.4.N.1.1-1.8<br>SC.5.N.1.1-1.6<br>SC.5.N.2.1-2.2 |