



iFLY Education Program Primary Standards Alignment Years Foundation – 6

Field Trip Activity	Standard
<p>Interactive Presentation:</p> <ul style="list-style-type: none"> • Students use the pitot-static tubes in the wind tunnel to observe and record the velocities of different objects in the wind tunnel. • 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><u>AC Science</u> ACSSU005, ACSSU033, ACSSU076, ACSHE013, ACSHE021, ACSHE034, ACSHE050, ACSHE061, ACSHE081, ACSHE098, ACSIS014, ACSIS233, ACSIS012, ACSIS024, ACSIS037, ACSIS060, ACSIS071, ACSIS093 & ACSIS110</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><u>AC Science</u> ACSSU005, ACSSU033, ACSSU076, ACSHE013, ACSHE021, ACSHE034, ACSHE050, ACSHE061, ACSHE081, ACSHE098, ACSIS011, ACSIS012, ACSIS024, ACSIS025, ACSIS026, ACSIS027, ACSIS029, ACSIS037, ACSIS038, ACSIS039, ACSIS040, ACSIS041, ACSIS042, ACSIS053, ACSIS054, ACSIS055, ACSIS057, ACSIS058, ACSIS060, ACSIS064, ACSIS065, ACSIS066, ACSIS068, ACSIS069, ACSIS071, ACSIS231, ACSIS232, ACSIS086, ACSIS087, ACSIS090, ACSIS091, ACSIS093, ACSIS103, ACSIS104, ACSIS107, ACSIS108, ACSIS110, ACSIS213, ACSIS215, ACSIS216, ACSIS218, ACSIS221, ACSIS233</p> <p><u>AC Mathematics</u> ACMMG019, ACMMG037, ACMMG061, ACMMG084, ACMMG108, ACMMG135, ACMMG137, ACMSP262, ACMSP263, ACMSP048, ACMSP049, ACMSP050, ACMSP068, ACMSP069, ACMSP070, ACMSP096, ACMSP118, ACMSP119, ACMSP120, ACMSP147, ACMSP148</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><u>AC Science</u> ACSSU005, ACSSU033, ACSSU076, ACSHE013, ACSHE021, ACSHE034, ACSHE050, ACSHE061, ACSHE081, ACSHE098, ACSIS011, ACSIS012, ACSIS024, ACSIS025, ACSIS026, ACSIS027, ACSIS029, ACSIS037, ACSIS038, ACSIS039, ACSIS040, ACSIS041, ACSIS042, ACSIS053, ACSIS054, ACSIS055, ACSIS057, ACSIS058, ACSIS060, ACSIS064, ACSIS065, ACSIS066, ACSIS068, ACSIS069, ACSIS071, ACSIS231, ACSIS232, ACSIS086, ACSIS087, ACSIS090, ACSIS091, ACSIS093, ACSIS103, ACSIS104, ACSIS107, ACSIS108, ACSIS110, ACSIS213, ACSIS215, ACSIS216, ACSIS218, ACSIS221, ACSIS233</p> <p><u>AC Mathematics</u> ACMMG019, ACMMG037, ACMMG061, ACMMG084, ACMMG108, ACMMG135, ACMMG137, ACMSP262, ACMSP263, ACMSP048, ACMSP049, ACMSP050, ACMSP068, ACMSP069, ACMSP070, ACMSP096, ACMSP118, ACMSP119, ACMSP120, ACMSP147, ACMSP148</p>