iFLY Education Program – New Jersey
Elementary School Standards Alignment

New Jersey Student Learning Standards

OBJECTIVES	STANDARDS
Interactive Presentation: • Name what each letter of the STEM acronym stands for. • Give examples of the real-world applications of STEM at iFLY. • Define the 3 most common states of matter and recognize that liquids and gases are both fluids. • Describe iFLY wind tunnels as indoor skydiving simulators with a closed loop, recirculating design. • Define a force as either a push or a pull. • Identify the forces acting on a skydiver and determine which direction those forces are pushing or pulling on their body. • State that frontal area is the part of the object that the wind can exert a force on at any given moment. • Explain why different objects need varying amounts of wind to make them fly in the wind tunnel.	Science: K-PS2-1 K-PS2-2 3-PS2-1 4-PS3-1 5-PS2-1 ETS1.A 3-5-ETS1-1 3-5-ETS1-2
Physics Demonstration: • Examine the physical attributes of the objects used for the demonstration. • Rank the objects from least to greatest mass and then from least to greatest frontal area. • Predict the order the objects will fly from slowest to fastest wind speed. • Observe and describe the behavior of a variety of objects in the wind tunnel. • Recognize that water will separate into droplets when poured into the wind. • Compare predictions to actual outcomes and discuss any differences.	Math: K-PS2-1 K-PS2-2 K-2-ETS1-3 2-PS1-1 3-PS2-1 3-PS2-2 5-PS1-3 Common Core Math: MP.1-8 K.MD.A.1 K.MD.A.2 3.MD.A.2 4.MD.A.2