

iFLY Education Program – New Jersey
Shape of Canopy Lab Standards Alignment

[New Jersey Student Learning Standards](#)



OBJECTIVES	STANDARDS
• Work together in small groups to investigate if the shape of the canopy affects a parachute's performance. • Build a parachute with a square canopy and then calculate the area of the canopy. • Use area formulas to calculate the dimensions for an equivalent area rectangle or triangle shaped canopy. • Build a second parachute with an either a rectangle or triangle shaped canopy with the same area as the square shaped canopy. • Use rulers, calculators, and stopwatches in their investigations. • Record descent time data during their parachute launches for both canopy shapes. • Analyze the data to determine how shape of canopy affects a parachute's performance.	<u>Science:</u> 3-PS2-1 3-5-ETS1-1 3-5-ETS1-2 3-5-ETS1-3 4-PS3-4 5-PS1-3 5-PS2-1 MS-PS2-1 MS-PS2-2 MS-PS2-4 MS-ETS1-1 MS-ETS1-2 MS-ETS1-3 <u>Math:</u> 3.MD.C.5 3.MD.C.7 3.OA.C.7 4.MD.A.3 5.G.B.3 6.G.A.1 6.EE.A.2 7.EE.B.4 MP.1-8