Name:



STEM Worksheet: Grades 5-6

A problem to solve

	How could engineers let people experience the thrill of skydiving, without ever going up in an airplane?
	1. How could they create enough air flow to get someone off the ground and into the air?
	How do you think the tunnel generates all that air flow?
	Where are the fans located?
	How many fans are there in our tunnel?
	2. What features would engineers need to think of when designing the tunnel?
	Safety
	Heat
	Energy
	3. Moving air causes forces. Draw an arrow and label the forces that act on a skydiver







4	How	does a	parachute	affect a	skydiver?
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Parachute Investigation



In groups you will be aiming to create a parachute that will have the longest drop time.

String length and weight are supplied; however, the shape, material and attachment of your parachute are variables your group will decide on.



SHAPE:	
STRING LENGTH:	30cm
WEIGHT:	Pom pom
MATERIAL:	
ATTACHMENT	

PLANNING THE INVESTIGATION

- \ _\-	What shape and material are the best for a parachute? Give reasons why.
-\	This is what I predict will happen
F	WHAT DID THE INVESTIGATION FIND OUT? Did you parachute perform as you predicted? Why/Why not?
- (]	What are some improvements you would make if you completed this task again?
J	

