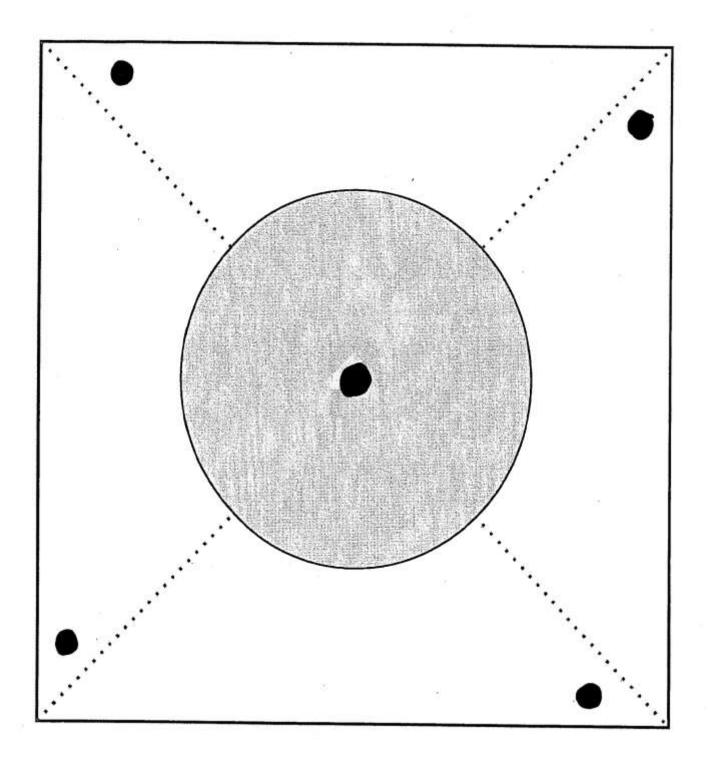
Science Performance		
Grade – Upper Elementary (3 gr	rade+)	Title
Topic – Energy		Wind Can Do Work for You!
Next Generation Science Stand	• •	
	are multiple possible solu	ng the speed of an object to the energy of that object. Itions to a problem based on how well each is likely to
Performance Expectation (Lear	ning Targets):	
I can build a wind turbine that can I can trouble shoot the problems of	of energy flow of the turb	ine as the weight of the load increases.
After watching video on wind turb encourage the students to resear		<u>pe.com/watch?v=yeKjpipwadg</u>
	Student Per	formance
Gathering Information: They wi follow the directions below to buil	•	other purposes for windmills and turbines. They can
<i>Materials for Project:</i> 1-5" tall plastic cup, 2 straws; 1 full size, 1 cut to 3 1/2", a straight pin, 1 sm. Binder clip, 30cm thread, paper clips, masking tape, scissors, hole punch, ruler, marker fan and 1 pattern per child for turbine (next page)		
Students assemble turbine and te lift using the fan as the wind sour students to see if changing the nu shape of the blades increases the	ce. (Use same settings found in the same setting found is a set of blades; triangle	or each testchallenge
Communicating: Students can will lift. Write a summary of your		bines and take data of load it
		Science Essentials
Science Practices	•	roduce data to serve as the basis for evidence for an menon or test a design solution.
Crosscutting Concepts	Most scientists and engineers work in teams.	
Disciplinary Core Ideas	Possible solutions to a problem are limited to available materials and resources.	
Connections		
Common Core State Standards	Writing – Conduct a short research project and write a summary. Math – gather data	



Cut out square and then cut on dotted lines. Use a hole- punch to carefully punch the circles out. This will become the blades of your turbine.