Straw Tower Mini-Activities 1 & 2

Mini-Activity 1: One-Straw Tall Tower

Your design challenge: Following the steps of the engineering design process, figure out the best way to keep one straw held up tall using the fewest number of straws and no more than 5 cm of tape.

	Ask:	
	Research the problem: Compare and contrast feature you see in tall and short towers.	
Imagine: Draw your design solution for how you would keep one straw up by using the fewest amount of additional straws and no more than 5 cm of tape. Label the materials used.		
ŀ	For this design, how many additional straws do you need?	
	Plan: Are you selecting your design solution or your partner's design solution (or a combination)?	
	Example answer. We are selecting my plan to build. Create: Build your tower.	
Test and evaluate: How did your group's design compare to your classmates' designs?		





 Improve: After seeing what your classmates have created design. Label the materials used in your design. 	·
8. Now construct your revised design. ☺	
Mini-Activity 2: No "Fishing Pole"	
Your design challenge: Make the longest straw pole possib "fishing pole," where the straw bends at about 45 degrees.	le without it becoming like a
1. Number of straws to make a straw pole before it creates a	a "fishing pole":
2. Why does the straw pole become a "fishing pole" when yo	ou add more straws?
2. How can you make a taller strow pole without it handing li	iko a "fishing polo"?
How can you make a taller straw pole without it bending li	ike a lishing pole ?

Date:

Class:



Name:

