Name:_____ Date:_____ Period: _____

Flight Project

http://nickcornwell.weebly.com/flight-project.html

Parts 1 and 2: Use Microsoft Flight Simulator and learn to fly. You may work in groups of 2 to complete this. Make sure you finish the worksheets. Complete tutorials 1-8 first and then fly from Roanoke to Blacksburg. Show me when you have completed your flight.

Since there are only 4 flight simulators, not everyone can simulate at the same time. Take this time to cut out and construct your card stock glider. Put pieces in a zip lock back. Completed glider should have your name on it and keep it in your shop locker. Every student must complete a glider.

Part 3: You are going to construct a paper airplane that flies the longest distance at the fastest speed. We will test them outside. This is an individual assignment.

Rules:
1. You can only use paper or card stock (no glue, staples, paper clips, etc.)
2. You may use as much paper as you want, but you are only allowed to use 2 pieces of card stock. Once I give you the 2 pieces of card stock, I will not give you replacement card stock if you mess up. So plan accordingly!
3. The length of your plane may be no longer than 18 inches.
4. We will test the distance and the speed of each plane and each student will chart the data.

Fly your glider you made from a kit and you airplane you designed three times each. Record the distance and time of each flight. Calculate the average flight of the three flights. (50 points)

Flight #	Length of Flight in Feet for kit glider	Flight Time in Seconds of the kit glider	Flight length of your design	Flight time of your design
1				
2				
3				
Average				

Does the kit glider or your design fly farther? _____

Record the flight data of all the members of the class. (100 points)

Distance	Number of Students	Time	Number of Students
< 2 feet		0-3 seconds	
Between 2 and 10 feet		4-7 seconds	
Between 10 and 20 ft		8-12 seconds	
Between 20 and 30 ft		13-16 seconds	
Between 30 and 40 ft		17-20 seconds	
Between 40 and 50 ft		21+ seconds	
>50 feet			

Whose plane performed the best?