

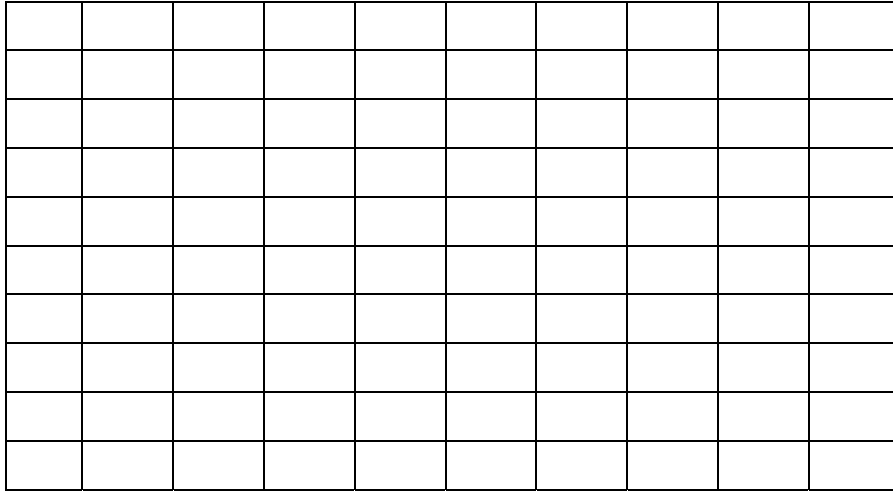
Team Name: _____ Date: _____

Newton's Second Law — Catapults! Worksheet

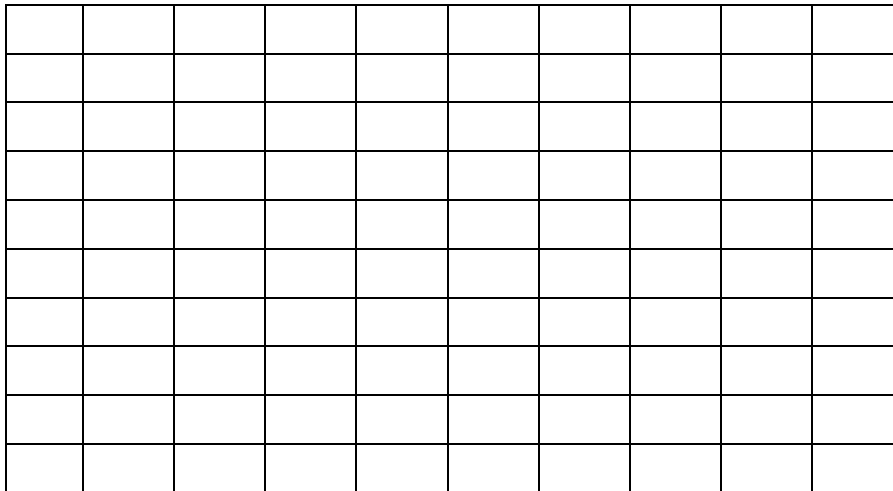
1. What is Newton's second law of motion?
2. Why is Newton's second law of motion important if you want to catapult an object a certain distance?
3. Record your data in the table below:

Angle (= force)	Maximum Height 1	Maximum Height 2	Average Height	Distance Traveled 1	Distance Traveled 2	Average Distance
10 degrees						
20 degrees						
30 degrees						
40 degrees						
50 degrees						
60 degrees						
70 degrees						
80 degrees						
90 degrees						

4. Graph your data with angle on the x-axis and maximum height on the y-axis.



5. Graph your data with angle on the x-axis and distance traveled on the y-axis.



6. How do you explain the trends you see on the graph?
How do they relate to Newton's second law?