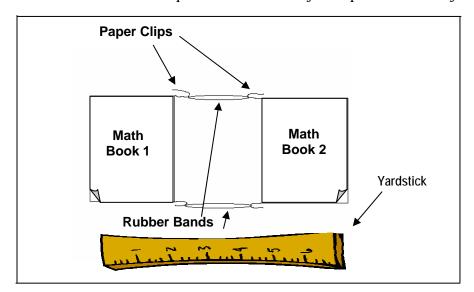
Name:	 Date:	

Physics Tug of War! Activity – Worksheet

Newton's 2nd Law: The force required to move an object depends on the object's mass.



Part 1.	One Book vs. One Book					
	Left Book			Right Book		
	Initial Position	Final Position	Distance Traveled	Initial Position	Final Position	Distance Traveled
Trial 1						
Trial 2						
Trial 3						
		Average Distance Traveled =			Average Distance Traveled =	

Part 2.	2. One Book vs. Two Books						
	Left Book				Right Books		
	Initial Position	Final Position	Distance Traveled	Initial Position	Final Position	Distance Traveled	
Trial 1							
Trial 2							
Trial 3							
		Average Distance Traveled =			Average Distance Traveled =		

An	swe	er the following questions:				
	1.	. In the first part of the activity (One Book vs. One Book), did the books travel the sar distance? Why or why not?				
	2.	In the second part of the activity (One Book vs. Two Books), which book(s) traveled farther? Why?				
	3.	What does Newton's 2 nd Law of Motion state?				
	4.	How does Newton's 2 nd Law of Motion affect airplanes?				