Name:	Date:

Sliders Worksheet

Group Members:					



- 1. Record the weight of your empty box in grams in the table below.
- 2. Add 500 grams to your box and record the total weight of the box and weight.
- 3. Gently add weight to your basket until the box starts sliding. Remember, do not add too much weight at a time you will not get an accurate measurement.
- 4. Record the weight of your filled basket in the table below.
- 5. Calculate and record your coefficient of static friction, μ ., using the equation:

$$\mu_s = W_{basket} \div W_{box}$$

where W stands for weight.

- 6. Repeat these steps for 1,000g, 1,500g and 2,000g weights in the box.
- 7. Average your coefficient of static friction, μ .

Empty Box (g)	Weight in Box (g)	Total Weight of Box (g)	Weight of Filled Basket (g)	μ
	500			
	1,000			
	1,500			
	2,000			

µ average	=

Energy: Lesson 4, Sliders Activity - Worksheet