

Name: _____

Pd: _____

Date: _____

Frog Legs Lab



(data tables = 5 pts each)

	Height Jumped	Distance Jumped
Paper trial 1		
Paper trial 2		
Paper trial 3		
Average		

	Height Jumped	Distance Jumped
Card Stock trial 1		
Card Stock trial 2		
Card Stock trial 3		
Average		

	Height Jumped	Distance Jumped
Card stock and plastic - 1		
Card stock and plastic - 2		
Card stock and plastic - 3		
Average		

Procedure:

1. Find the frog made out of paper and make it jump by gently pushing on the back of the paper. Record how far the frog jumps **in cm**. Do three trials and find the average distance.
2. Find the frog made out of paper and make it jump by gently pushing on the back of the paper. Record how high the frog jumps in cm. Do three trials and find the average height
3. Repeat steps 1 and 2 for the frog made out of card stock
4. Repeat steps 1 and 2 with the card stock frog with the plastic strip placed inside the CARD STOCK frog.

Analysis Questions: Answer each question in complete sentences.

1. What are the kinds of potential energy that your frogs had in this lab? (5pts)
2. What are some other examples of things that have elastic potential energy? Gravitational potential energy? (5pts)
3. What is kinetic energy? What are some examples of things that have kinetic energy? (5pts)

4. How high and how far did the frog you folded out of paper jump? How did this compare to the distances jumped by the frogs of others in the class? What might be some reasons for any differences? (10pts)

5. How high and far did the frog you folded out of card stock jump? How did this compare to the distances jumped by the frogs of others in the class? What might be some reasons for any differences? (10pts)

6. What happened when you put the plastic inside the card stock frog? Infer why this happened. (10 pts)

7. What do you think would happen if you put the transparency film in the paper frog? Explain. (10pts)

8. At what point did the frog have the most gravitational potential energy? Why? (10pts)

9. When did the frog have the most elastic potential energy? Why? (10pts)

10. When did the frog have kinetic energy? When was there no kinetic energy? (10 pts)