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## ASSIGNMENT - Flip Book

Animated cartoons are an excellent resource when studying Newton's Laws of Motion. It is possible to find evidence of the laws being obeyed as well as disobeyed. Think about how many times Wile E. Coyote fires a cannon, only to have the cannonball hang in midair while the cannon shoots backward into him - which law of physics does this defy?

You will now produce your own mini-cartoon, which will be in the form of a flip book. The actions in the flip book will illustrate either Newton's Second or Third Law of Motion. (NOTE: Your flip book will also show the First Law, but since someone once handed me a flip book with a bowling ball sitting still for 10 pages, First Law is no longer an option to write about...)

The flip book must have a minimum of 10 pages, be illustrated in color and have a title card stating the law of motion that is demonstrated. You need not be a terrific artist - stick figures are sometimes the most effective. Remember the graphing activity that you did when you read the article about "Robots"?

Sticky note pads make really good flip books. I will have a supply available, but you must show me rough sketches for your ten pages before I'll give you one.

On the back of the last page, write your name. On a separate piece of paper, write a good paragraph that describes what you have illustrated: define the illustrated law of motion, describe the forces and motion in your cartoon, and how your cartoon either correctly or incorrectly illustrates the law of motion that you have chosen. NOTE: To receive the most points for this paragraph, it would be good to type it and use spell check and/or have someone who is a good writer check your paragraph for spelling and grammar.

Your flip book, explanatory paragraph, and the completed assessment sheet (on the back) will be due on Thursday, June 17.



**PERFORMANCE TASK ASSESSMENT LIST**  
**Laws of Motion Flip Book**

<b>ELEMENT</b>	<b>Points Possible</b>	<b>Assessment Points</b>	
		<b>Self:</b>	<b>Teacher:</b>
1. There is a minimum of 10 pages.	3		
2. The book is illustrated in color. (For full credit, there must be significant color.)	3		
3. There is a title card that states the law of motion that is illustrated, and your name is on the back cover.	1		
4. There is a separate sheet with a paragraph explaining your flip book. (State the law, describe the forces and motion in your cartoon, and how your cartoon either correctly or incorrectly illustrates the law.)	10		
5. There are no errors in spelling, punctuation, or grammar. (NOTE: You cannot receive these points if you do not hand in a paragraph!)	3		
6. The overall quality is excellent.	5		

COMMENTS:

NAME:

10 pages (3) \_\_\_\_\_

Color (3) \_\_\_\_\_

Title page with law and  
name on back (1) \_\_\_\_\_

Descriptive paragraph (10) \_\_\_\_\_

Spelling, etc. (3) \_\_\_\_\_

Overall quality (5) \_\_\_\_\_

TOTAL (25) \_\_\_\_\_

COMMENTS:

NAME:

10 pages (3) \_\_\_\_\_

Color (3) \_\_\_\_\_

Title page with law (1) and  
name on back (1) \_\_\_\_\_

Descriptive paragraph (10) \_\_\_\_\_

Spelling, etc. (3) \_\_\_\_\_

Overall quality (5) \_\_\_\_\_

TOTAL (25) \_\_\_\_\_

COMMENTS:

NAME:

10 pages (3) \_\_\_\_\_

Color (3) \_\_\_\_\_

Title page with law and  
name on back (1) \_\_\_\_\_

Descriptive paragraph (10) \_\_\_\_\_

Spelling, etc. (3) \_\_\_\_\_

Overall quality (5) \_\_\_\_\_

TOTAL (25) \_\_\_\_\_

COMMENTS:

NAME:

10 pages (3) \_\_\_\_\_

Color (3) \_\_\_\_\_

Title page with law (1) and  
name on back (1) \_\_\_\_\_

Descriptive paragraph (10) \_\_\_\_\_

Spelling, etc. (3) \_\_\_\_\_

Overall quality (5) \_\_\_\_\_

TOTAL (25) \_\_\_\_\_

COMMENTS: