**Pathway and Playlist:  ENERGY     DUE AT THE BEGINNING OF CLASS, Friday, April 29th.**

7.P.2 Understand forms of energy, energy transfer and transformation and conservation in mechanical systems. 7.P.2.1 Explain how kinetic and potential energy contribute to the mechanical energy of an object. 7.P.2.2 Explain how energy can be transformed from one form to another (specifically potential energy and kinetic energy) using a model or diagram of a moving object (roller coaster, pendulum, or cars on ramps as examples).

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| *Time on task* |  |  |  |  |  |  |  |  |  |
| 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |

*Agreements:*

1. I will **label and show my work** for each activity in my notebook. I will glue, staple, or tape in any activity that is on a separate sheet of paper. I understand that if my notebook is not organized or if I do not show my work, I will lose points on my assignments.
2. If I have a question, I will **ask** **three** **classmates** *before* I ask my teacher.
3. At the stop signs, I will make sure **my teacher checks my work** before I move on. I know she wants to make sure I understand the information I am learning.

***HOMEWORK*:** You are required to complete the LINCS vocabulary by 4/29 (Friday).

***CLASSWORK*:** All assignments can be found below.   *Please* let your teacher know ASAP if you don’t have access to a computer or the internet at home so she can provide you with resources. ***PLEASE MARK AS COMPLETE WHEN YOU ARE DONE.***

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| **Conservation of Energy:** | **Go to:** | **Evidence of Understanding:** |
| **Introduction**: *What is energy?*  *What types of energy are there?* | Playlist #1:   * <https://www.brainpop.com/science/energy/formsofenergy/> * <https://www.flocabulary.com/unit/energy/video/> | Please label In your notebook, the pages you are using for your “Energy Pathway” in your Science Notebook.  Complete the Brain Pop Review Quiz.  You must have a 100% score to move on.  Please have your teacher mark this off once you are complete.  Watch the Flocabulary video and answer questions: What are Kinetic, Potential and Mechanical Energy?  What are 5 types of energy that are mentioned in the song? |
| **What is mechanical energy?**  **What is the law of conservation of energy?** | **Pathway... Choose one option:**   * **View the Energy Presentation available on Google Classroom** * **Complete the Discovery Education animation on Energy:***(Access through your assignments tab)* * **Read the online information at:** [**http://www.fmschools.org/webpages/lgeracicivilett/science.cfm?subpage=10496**](http://www.fmschools.org/webpages/lgeracicivilett/science.cfm?subpage=10496) * **AND**<http://www.fmschools.org/webpages/lgeracicivilett/science.cfm?subpage=10497> | **In your LINCS vocabulary define the following words:**  using the information you have found   * Law of Conservation of Energy * Kinetic Energy * Potential Energy * Mechanical Energy |
| **How is energy transferred between potential and kinetic?**  **How does thermal energy factor in to a system?** | * Complete the Energy Skate Park virtual lab on Google Classroom. * <http://phet.colorado.edu/en/simulation/energy-skate-park-basics>   \*\* Go to INTRODUCTION section and turn on BAR GRAPH at the top right of the screen. | WRITE OUT AND ANSWER THE QUESTIONS TO ENERGY SKATE PARK IN YOUR NOTEBOOK AND HAVE IT CHECKED OFF BY A TEACHER. |
| **Exit Ticket: How well do you know it?** |  |  |
| Due at the end of class 4/26 (TUESDAY) | Go to Google Classroom, and complete the Google Form provided.  There are 5 pictures to choose from:   * A Lamp turning on. * A hydroelectric dam. * A fire burning. * A tennis ball bouncing. * A plate of spaghetti.   Pick 2 of these, and then answer these questions for each.   * 1. What type of energy is occurring at the beginning?   2. What type of energy is occurring at the end?   3. How and why do you know that these types of energy are the one(s) happening? | You must submit this form by the end of the block. |