



## Course: CP/CPA Physics

We hope that you, your families and loved ones are well! During the COVID-19 pandemic school closure, we will be doing our best to provide you engaging activities that will enrich your understanding of Physics. During term 4, you will primarily be exploring work and energy. This will include kinetic and potential energy and momentum.

Goal for this week
<p><b>Learning Objectives:</b></p> <p>Students will be able to ...</p> <ol style="list-style-type: none"> <li>1. calculate the momentum of an object.</li> <li>2. calculate impulse as the change in momentum of an object.</li> </ol> <p style="text-align: right;">(2016 MA STE Standard: HS-PS3-1)</p>
<p><b>Literacy Objectives:</b></p> <ol style="list-style-type: none"> <li>1. Reading: to understand a concept and construct meaning</li> <li>2. Writing: to generate a response to what one has read, viewed, or heard</li> <li>3. Reasoning: to compute, interpret and explain numbers</li> </ol> <p style="text-align: right;"><a href="https://www.bpsma.org/schools/brockton-high-school/about-us/mission-literacy-charts">https://www.bpsma.org/schools/brockton-high-school/about-us/mission-literacy-charts</a></p>

<p><b>Lesson:</b></p> <ul style="list-style-type: none"> <li>• <i>Your science teacher will be in contact to clarify expectations (like when and how to submit your work for credit) for your class.</i></li> <li>• Click on the links to view the resources.</li> </ul>	
<p><b>WHY THIS MATTERS</b></p>	
<p>The Law of Conservation of momentum applies to all moving objects. Hopefully it won't happen to you, but what happens in an auto accident? Where does that energy go in a crash? Figuring out what happened is important and data from the crash can be used to find out. Maybe a career as an <a href="#">accident reconstructionist</a> is for you?</p>	
<p><b>Topic: Kinetic and Potential Energies</b></p>	
Day	What to do ...
Monday	Memorial Day
Tuesday	Read <a href="#">Introduction to Momentum</a> and answer the 3 problems on the above web page (20 minutes).
Wednesday	Read about <a href="#">Momentum Change and Impulse</a> and answer the questions as you go. (Save the "Check Your Understanding" questions for tomorrow.
Thursday	Complete the "Check Your Understanding" questions on the <a href="#">Momentum Change and Impulse</a> webpage you visited yesterday.
Friday	Read about <a href="#">conservation of momentum</a> (Part 1) (10 minutes). Do the <a href="#">virtual Egg Drop lab</a> and make and record observations from the different variables involved with your different drops (20 minutes).

# WEEKLY REMOTE LESSONS

May 18-22, 2020

BROCKTON HIGH SCHOOL  
SCIENCE DEPARTMENT



## **Additional Support**

### **Email:**

- Please reach out to your science teacher with specific questions about the lesson.

### **Office Hours:**

- Here is a list of the [science teachers' office hours](#). Please email your teacher to set up meeting times.

### **Other questions:**

- Science Department Head  
Dr. David Mangus  
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