




## Grade 12

### School-without-Walls Package 16 (12 July to 16 July 2021)

#### Homework\_Day 1 (12 July 2021)

Subject	Click on the Youtube Links	Things to Note
English	<p>Readworks Article</p> <p>Click → <a href="http://www.readworks.org/student">www.readworks.org/student</a></p> <ol style="list-style-type: none"><li>1. Enter class code <b>55QG3L</b></li><li>2. Click on YOUR NAME.</li><li>3. The default password is <b>1234</b>.</li><li>4. Look for <b>Using Cellphones and Computers to Transmit Information</b></li></ol> <p>From the article, write in your exercise book <b>“How has the use of computer changed over time?”</b></p>	
Mathematics	<p>Quadratic inequalities Answer to Practise Now 15, 16 <a href="#">Answers to Grade 12 Amath Chapter 2 Quadratic Inequalities PN 15 16</a></p>	<p>Check and copy the correct working and answers into the Math 1</p>
Chemistry	<p>14B Reaction Mechanism 14.7 Mechanisms <a href="https://youtu.be/LM8akywYal8">https://youtu.be/LM8akywYal8</a></p>	<p>Read the Notes to fill in the blanks in the notes</p>

<b>Physics</b>	<p>Answers to Section 12CQ1 to Q6 (Copy into your physics exercise book)</p> <ol style="list-style-type: none"> <li>What eventually happens to a real oscillating system without any outside assistance?  A real oscillating system will eventually stop oscillating without external assistance. (§12.10)</li> <li>Assuming that an ideal spring restoring force acts on an oscillating system, what is the major source of damping force?  Fluid drag from the surrounding air or liquid will damp an oscillating ideal spring-mass system. (§12.10)</li> <li>To which property of an oscillating system is the magnitude of the external damping force proportional?  The damping force is approximately proportional to the speed of the oscillating system through the medium. (§12.10)</li> <li>What kind of condition exists when the damping force is so great that no overshoot of the equilibrium position occurs after the system is released?  An overdamped condition exists when no overshoot occurs after release. (§12.10)</li> <li>The escapement system in a pendulum-regulated clock applies a small force to the pendulum arm every cycle. What are these momentary forces called, and what kind of oscillations are occurring?  The escapement system supplies pulses of force to the pendulum in driven oscillations. (§12.11)</li> <li>At what frequency should force be applied to increase the amplitude of an oscillator?  The amplitude of oscillations can be increased by driving the system at its natural oscillation frequency, <math>f_0</math>. (§12.11)</li> </ol>	
<b>Portuguese</b>	<p>Foi ou Fui   Português On-line  <a href="https://youtu.be/NEnM1bUEigY">https://youtu.be/NEnM1bUEigY</a></p> <p>Click on <a href="#">Foi &amp; Fui</a> to read the worksheet.</p>  <p>SWW Package 16 -  Port - Foi ou fui.pdf</p>	<p>Copia de PDF no seu caderno Português!  Não esqueça completa o texto com a resposta correcta!</p>

## Homework\_Day 2 (13 July 2021)

Subject	Click on the Youtube Links	Things to Note
English	<p><b>Readworks Article</b></p> <p>Click → <a href="http://www.readworks.org/student">www.readworks.org/student</a></p> <ol style="list-style-type: none"> <li>5. Enter class code <b>55QG3L</b></li> <li>6. Click on YOUR NAME.</li> <li>7. The default password is <b>1234</b>.</li> <li>8. Look for <b>What is GPS?</b></li> </ol> <p>In your English exercise book, write the meaning of the <b>words in blue</b> found in the article and answer the questions in the site of the article.</p>	
Mathematics	<p>Quadratic inequalities Answer to Practise Now 17, 18 <a href="#">Answers to Grade 12 Amath Chapter 2 Quadratic Inequalities PN 17 18</a></p>	Check and copy the correct working and answers into the Math 1
Physics	<p>12D Waves Read 12.12 Page 280 – 281)</p> <p>Watch <b>Intro to waves</b> <a href="https://www.youtube.com/watch?v=RVyHkV3wlyk">https://www.youtube.com/watch?v=RVyHkV3wlyk</a></p>	<p>With the help of the glossary (pages 710 to 728) Write down the definitions of the following words in your science exercise book:</p> <ul style="list-style-type: none"> <li>• Waves</li> <li>• Medium</li> <li>• Disturbance</li> </ul>
Chemistry	<p>14.8 Rate Laws and Reaction Orders <a href="https://youtu.be/2qw8GJUqMMY">https://youtu.be/2qw8GJUqMMY</a></p>	Read the Notes to fill in the blanks in the notes
Portuguese	<p>Quiz de Coletivos #2   Língua Portuguesa <a href="https://www.youtube.com/watch?v=0neR7zY34qY">https://www.youtube.com/watch?v=0neR7zY34qY</a></p>	<p>Quiz - Clique (click) no link abaixo e responda as perguntas. Não se esqueça de enviar! <a href="https://forms.gle/PA2Fjj73PhaRy3Az7">https://forms.gle/PA2Fjj73PhaRy3Az7</a></p>

## Homework\_Day 3 (14 July 2021)

Subject	Click on the Youtube Links	Things to Note
English	<b>Zoom Lesson (2pm to 4pm)</b>	
Mathematics	Zoom Lesson from 2pm to 4pm Quadratic inequalities	
Chemistry	Zoom Lesson from 2pm to 4pm	Complete the work assigned in the zoom session
Physics	<b>Grade 12 Zoom Lesson (2pm to 4pm)</b>  Download notes on: <b>(Similar to Package 13)</b> <ul style="list-style-type: none"> <li>Chapter 12 – <a href="#">Periodic Motion</a></li> </ul>	
Portuguese	Quiz de Antônimos #2   Língua Portuguesa <a href="https://www.youtube.com/watch?v=Q9WdkK7Psfk">https://www.youtube.com/watch?v=Q9WdkK7Psfk</a>	Copia 10 perguntas com respostas no seu caderno exercício português.
Music	Listen Is He worthy? <a href="https://www.youtube.com/watch?v=YtC-Fnsy4es">https://www.youtube.com/watch?v=YtC-Fnsy4es</a>	From the song, list down all the questions that start with the following words: <ul style="list-style-type: none"> <li>Do.....</li> <li>Does.....</li> <li>Is.....</li> </ul>

# Homework\_Day 4 (15 July 2021)

Subject	Click on the Youtube Links	Things to Note
English	<p>Article-a-Day Week → <b>Important Asian American Figures</b></p> <p>Do you know any of these Asian Americans?</p> <ul style="list-style-type: none"> <li>- Kalpana Chawla</li> <li>- Yo-Yo Ma</li> <li>- Fred Korematsu</li> <li>- Dr. Chien-Shiung Wu</li> <li>- Daniel Inouye</li> <li>- Dr. Sammy Lee</li> <li>- Kristi Yamaguchi</li> </ul> <p>Click → <a href="http://www.readworks.org/student">www.readworks.org/student</a></p> <ol style="list-style-type: none"> <li>1. Enter class code <b>55QG3L</b></li> <li>2. Click on YOUR NAME.</li> <li>3. The default password is <b>1234</b>.</li> <li>4. Look for <b>Important Asian American Figures</b></li> <li>5. <b>Choose an article on another Asian American and find out what makes him or her important.</b></li> </ol> <p><b>After reading the article, type in the BOOK of KNOWLEDGE (minimum of 50 words) what new knowledge you have gained from the reading the article.</b></p> <p>In your English exercise book, write the meaning of the words in blue found in the article (If any)</p>	
Mathematics	<p>Quadratic Inequalities</p> <p>Do this Pre Test (30 minutes) in Math 1</p> <ol style="list-style-type: none"> <li>1. Find the range of values of <math>x</math> which satisfy <math>(x + 2)(x - 3) &gt; 0</math>, showing the answer on a number line.</li> <li>2. Determine the range of values of <math>k</math> for which the function <math>y = 2k + 5x - 2x^2</math> is always negative for all real values of <math>x</math>.</li> <li>3. Find the range of values of <math>k</math> for which the equation <math>x^2 + 3kx + 2k = x - 10</math> has real and distinct roots. State the values of <math>k</math> for which the equation has equal roots.</li> </ol>	<p>Click <a href="https://forms.gle/KxsGw3ydcCT6hXZa8">https://forms.gle/KxsGw3ydcCT6hXZa8</a> to check your answers</p>

<b>Chemistry</b>	14.9 Using Kinetics to solve problems	<p>Read page 375 on Serving God as a pharmacologist</p> <p>Write down the answers for the 3 questions in your chemistry notebook</p> <ol style="list-style-type: none"> <li>1. What does a pharmacologist do?</li> <li>2. What qualification does a pharmacologist need?</li> <li>3. Are you interested in this career? Why yes/not?</li> </ol>
<b>Physics</b>	<p>12D Waves</p> <p>Read 12.13 (Page 281)</p> <p>Watch</p> <p><b>Wavelength, Frequency, Time Period and Amplitude</b></p> <p><a href="https://www.youtube.com/watch?v=9VSHa1mKcTw">https://www.youtube.com/watch?v=9VSHa1mKcTw</a></p>	<p>With the help of the glossary (pages 710 to 728)</p> <p>Write down the definitions of the following words in your science exercise book:</p> <ul style="list-style-type: none"> <li>- Longitudinal Wave</li> <li>- Transverse wave</li> <li>- Compression</li> <li>- rarefaction</li> </ul> <p>Do Section 12D Q3</p>
<b>Portuguese</b>	<p>Quiz de Sinônimos #2   Língua Portuguesa</p> <p><a href="https://www.youtube.com/watch?v=CL-RdWuedBY">https://www.youtube.com/watch?v=CL-RdWuedBY</a></p>	<p>Quiz - Clique (click) no link abaixo e responda as perguntas. Não se esqueça de enviar!</p> <p><a href="https://forms.gle/DT9A9sJoexr9JuGJ9">https://forms.gle/DT9A9sJoexr9JuGJ9</a></p>

# Homework\_Day 5 (16 July 2021)

Subject	Click on the Youtube Links	Things to Note
English	<b>Vocabulary Activity</b>  Click → <a href="http://www.readworks.org/student">www.readworks.org/student</a>  1. Enter class code <b>55QG3L</b> 2. Click on YOUR NAME. 3. The default password is <b>1234</b> . 4. Look for <b>Thrifting is Trending</b>  Complete the vocab activity assigned and write the vocab words (in blue) in the exercise book. Form a sentence with the vocab word given.	
Mathematics	20 minutes Mathematic Test on Quadratic Inequalities  Download the test questions <a href="#">Grade 12 Chapter 2 Quadratic Inequalities</a> and show your workings and answers in Math 1	Submit your answer to <a href="https://forms.gle/gGMSMxejuiNJyGpP7">https://forms.gle/gGMSMxejuiNJyGpP7</a>
Chemistry	14B Section Review	<b>Do Question 1 to 7 and write your answers in the chemistry notebook</b>
Physics	12D Waves Read 12.14 (Page 281 – 282)  Study and copy Examples 12-4 and 12-5 in your exercise book  Watch <b>Periodic Waves Introduction</b> <a href="https://www.youtube.com/watch?v=BgAHfgnGdS0">https://www.youtube.com/watch?v=BgAHfgnGdS0</a>	With the help of the glossary (pages 710 to 728) Write down the definitions of the following words in your science exercise book: - wavelength - Wave speed  Do Section 12C Q7 – Q9
Portuguese	Quiz de Sinônimos #3   Língua Portuguesa <a href="https://www.youtube.com/watch?v=sfWlir48BPg">https://www.youtube.com/watch?v=sfWlir48BPg</a>	Copia 10 perguntas com respostas no seu caderno exercício português.