

Grade 12 School-without-Walls Package 9 (24 May to 28 May 2021)

Homework_Day 1 (24 May 2021)

Subject Clie	ck on the Youtube Li	nks	s Things to Note			
Сог	er to the notes on Unimplete Section A (Voca estion 1 to Question 4		Focus on Writing and Speaking Skills (Given to you) ary)			
	Unit 7: Focus Vocabulary In Unit 7 of the Coursebook, you saw the words impression and professionof. Use the table below to make more words that are spett with -ss-, Join letters from column A with letters from column B, using -ss- in the middle. A C C C C C C C C C C C C	on 2 3	 paper handkerchief			

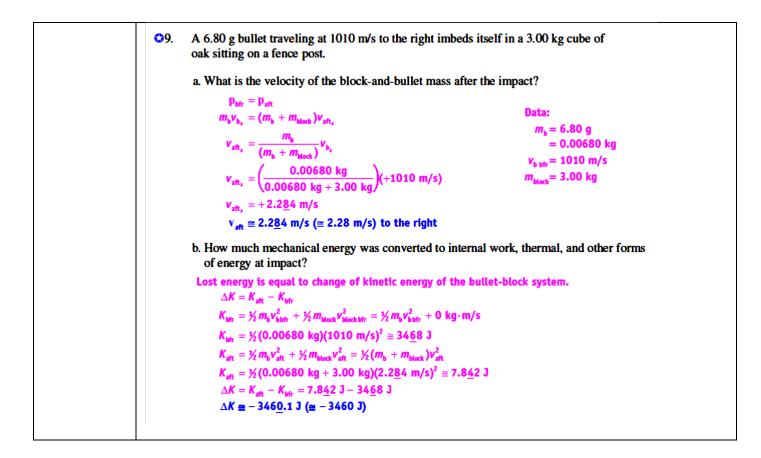
	accomadate ma existance his calender exi indispensible alg disciplane no	angable
Mathematics	Factor Theorem View Answer to Practice Now 10 <u>https://youtu.be/T4ynZcGbaTQ</u> View Answer to Practice Now 11 <u>https://youtu.be/AsKca04-9LQ</u>	Homework Exercise 1D #1a, d, 2 and 4
Chemistry	Chapter 13 Chemical Thermodynamics Click <u>Grade 12 Chemistry Chapter 13 Notes</u> for the notes for the whole chapter. View Difference between heat, temperature <u>https://youtu.be/oOHgOg94pg8</u> By calorimeter] <u>https://youtu.be/SagNcyN1yUQ https://youtu</u> .be/4OKy782ePKM	Copy and fill in the blanks for 13.1 -13.2 into the Chemistry Notebook

Physics		answers to Chapter 11B Section Review C ook if you do not know the answers.	Questions in your science	
	11B Sect	ion Review		
	1.	Under what conditions will momentum be completely consertwo objects?	ved in a collision between	
		The only necessary condition for ensuring conservation collision is that no external forces may act on the system (§11.7)		
	2.	(True or False) If the only forces at work on a system are interconserved.	rnal, momentum is	
	3.	Kinetic energy can be conserved only if the collision is completely elastic and momentum is conserved as well (i.e., no external forces act on the system of objects). (§11.8)		
	5.			
	4.			
		The vector sum of the objects' momenta after the collis vector sum of their momenta before the collision.	sion should equal <u>the</u> Activate Wil Go to Settings t	
	DS5.	Describe the geometry and class of collisions evaluated in Most crash tests are two-dimensional, partially elast nearly inelastic collisions. (§§11.9, 11.12–11.13)		
	DS6.	What objectives do engineers and car manufacturers have when trying to decrease the impulse on passengers for any given collision?		
	They can decrease the impulse on passengers by either decreasing the force of the crash, decreasing the time that the force is exerted, or both. (§11.13)			
	≎7.	An air track glider of mass $m_1 = 1.80$ kg with an initial vecollides elastically with a stationary glider of mass $m_2 = 5$ direction of the two gliders after the collision.	•	
		$V_{1 \text{ sft}_r} = \left(\frac{m_1 - m_2}{m_r + m_2}\right) V_{1 \text{ bfr}_r}$	Data:	
		$v_{1 \text{ aft}_{x}} = \left(\frac{1.80 \text{ kg} - 5.00 \text{ kg}}{1.80 \text{ kg} + 5.00 \text{ kg}}\right) (+1.20 \text{ m/s})$	$m_1 = 1.80 \text{ kg}$ $v_1 \text{ bfr} = 1.20 \text{ m/s right}$ $m_2 = 5.00 \text{ kg}$	
		$v_{1aft} \cong 0.5647$ m/s ($\cong 0.565$ m/s) to the left		
		$v_{2 \text{ aft}_x} = \left(\frac{2m_1}{m_1 + m_2}\right) v_{1 \text{ bfr}_x}$		
		$v_{2 \text{ sft}_x} = \left(\frac{2(1.80 \text{ kg})}{1.80 \text{ kg} + 5.00 \text{ kg}}\right) (+1.20 \text{ m/s})$ $v_{2 \text{ sft}} \cong 0.635 \text{ zm/s} \text{ (} \cong 0.635 \text{ m/s}\text{) to the right}$	Activate Win Go to Settings to	
		$\tau_{2aft} = 0.05 \underline{2} \Sigma \text{ m/s} (= 0.055 \text{ m/s}) \text{ to the right}$		
	1			

Portuguese	Conteúdo: TÃO E TANTO.Objetivo:	QUIZ - Após assistir ao video,
	Estudantes pode ser:	por favor clique (click) no link
	* Diferenciar tão e tanto.	abaixo e responda as
	- Tão e Tanto Português On-ine.	perguntas.
	https://www.youtube.com/watch?v=7sMZgeH	https://forms.gle/NAx5KJz89TZ
	wyi8	<u>Q6QE38</u>
	- Click on <u>Tão&Tanto</u> to read the worksheet.	
	(PDF) SWW 9 - Tão e tanto.pdf	

Homework_Day 2 (25 May 2021)

Subject	Click on the Youtube Links	Things to Note		
English	Article-a-Day Week → Korean Art			
	How to get to your Article for Day 1			
	Click → <u>www.readworks.org/student</u>			
	 Enter class code 55QG3L Click on YOUR NAME. The default password is 1234. 			
	4. Click on one of the two articles you will like to	read.		
	Remember:			
	Words are where humans store knowledge. So we build our knowledge by reading these articles. We will also increase our vocabulary, improve our reading stamina, and enjoy reading every day!			
	Read an article a day to find out more about Korean Art. After reading each article, type in the BOOK of KNOWLEDGE (minimum of 50 words) what new knowledge you have gained from the reading the article.			
	In your English exercise book, write the meaning of the	e words in blue found in the article (If any)		
Mathematics	Factor Theorem	Homework Exercise 1D #1b, f, 6 and 8		
	https://youtu.be/qMNFRITMnzE			
	View Answer to Homework Exercise 1D #1a, d, 2 and 4			
Chemistry	View Phase change. Enthalpy of fusion and	Copy and fill in the blanks for 13.3		
	vapourisation	Enthalpy of Phase Changes into the		
	https://youtu.be/oc0ypeDELb0	Chemistry Notebook		
Physics	Copy the answers to Chapter 11B Section Review Questions 8 to 10 in your science exercise book and study the solutions to check understanding.			
	♥8. An air track glider ($m_1 = 1.80$ kg) moving to the right collides with a stationary glider (m_2). What must the mass of the second glider be in order for its velocity after the collision to be 1.2 times the first glider's initial velocity?			
	$\mathbf{V}_{2 \mathrm{aft}_x} = \left(\frac{2m_1}{m_1 + m_2}\right) \mathbf{V}_{1 \mathrm{bfr}_x}$	Data:		
		$m_1 = 1.80 \text{ kg}$		
	$(1.2) \overrightarrow{v_{1bfs_{a}}} = \frac{2m_1}{m_1 + m_2} \overrightarrow{v_{1bfs_{a}}}$	$v_{2 aft} = 1.2 v_{1 bfr}$		
	$1.2(m_1 + m_2) = 2m_1$			
	$m_2 = \frac{2m_1}{1.2} - m_1 = \frac{2(1.80 \text{ kg})}{1.2} - 1.80 \text{ kg}$			
	$m_2 = 1.20 \text{ kg}$			



	○10. A 0.250 kg air table puck traveling at 1.00 m/s to 2.00 kg stationary puck. The first puck rebounds of +60.° from the positive x-axis. What is the velo collision?	with a velocity of 0.870 m/s at an angle	
	contaction	Data:	
		<i>m</i> ₁ = 0.250 kg	
	P _{bfr} = P _{att} Solving for the <i>x</i> -components:	$v_{1,\text{bt}} = 1.00 \text{ m/s right}$	
	$m_1 v_{1bh_1} + m_2 v_{2bh_2} = m_1 v_{1ah_2} + m_2 v_{2ah_3}$	v _{1 at} = 0.870 m/s at 60.°	
	m1*16m, * m2*296, = m1*1at, * m2*2at,	<i>m</i> , = 2.00 kg	
	$v_{2an_r} = \frac{m_1 v_{1an_r} - m_1 v_{1an_r}}{m_2}$	$v_{2 \text{ bfr}} = 0 \text{ m/s}$	
		(0.250 kg)(0.870 m/s)(cos60.°) 2.00 ka	
		2.00 kg	
	$v_{2at x} \equiv +0.070 \underline{6}2 \text{ m/s}$ Solving for the y-components:		
	$\overline{m_1} v_{100x_4} + \overline{m_2} v_{200x_4} = m_1 v_{100x_1} + m_2 v_{200x_4} \Rightarrow m_2$	$v_{2an_{y}} = -m_{1}v_{1an_{y}}$	
	$\mathbf{v}_{2an_{\mathbf{r}}} = \frac{-m_{1}\mathbf{v}_{1an_{\mathbf{r}}}}{m_{\mathbf{r}}}$		
		:Ysin60.°)	
	$v_{2aty} = \frac{-(0.250 \text{ kg})(0.870 \text{ m/s})}{2.00 \text{ kg}}$	<u> </u>	
	$v_{zatty} \equiv -0.09418 \text{ m/s}$		
	Determine the final speed of the second puck: $v_{2art} = \sqrt{v_{2art}^2 + v_{2art}^2} = \sqrt{(+0.07062 \text{ m/s})^2 + (-0.09418 \text{ m/s})^2}$		
	$v_{2an} = \sqrt{v_{2an}} + v_{2an} = \sqrt{(v_{0.07}, 0.02)} + \sqrt{v_{2an}} = 0.1177 \text{ m/s}$	(0.094 <u>1</u> 0 iit)	
	v _{2at} ≅ 0.11 <u>/</u> / m/s Determine the direction of the second puck:		
	$\alpha_{v_{2:k}} = \tan^{-1} \left(\frac{ -0.094\underline{1}8 \text{ m/s} }{ +0.070\underline{6}2 \text{ m/s} } \right) \leq 53.\underline{1}3^\circ$		
	Since v _{2 at} is in quadrant IV, θ ₁₁₀ = 360° – α ₁₁₀ or just – 53. <u>1</u> 3°		
	v _{2 an} ≅ 0.11 <u>7</u> 7 m/s (≅ 0.118 m/s) at −53. <u>1</u> from the positive <i>x</i> -axis	3° (≝ –53.1°)	
Portuguese	Conteúdo: 100 PERGUNTAS DE GEOGRAFIA.	QUIZ - Após assistir ao video, por favor clique (click) no link abaixo e	
	Objetivo: Estudantes pode ser:	responda as perguntas.	
	Testar os conhecimentos sobre		
	países, lugares, etc.	https://forms.gle/Fjkd7YAfAdWxhvMP7	
	Geografia – teste do países, lugares, etc.		
	https://www.youtube.com/watch?v=Ff9tbFtyvBY		

Devotion	Listening to God's Plan (by Nick Vujicic) https://www.youtube.com/watch?v=NNhR-4KetoQ	What is the Formula to knowing God's plan for you in your life? 1. Take one day at a time w G by your side, and 2. Ask Him to g you and I you. 3. Keep on p 4. Keep on r your B
		 5. Do your b and God will show you the r Write the formula in your English Exercise book.

Homework_Day 3 (26 May 2021)

Subject	Click on the Youtube Links Thi		ings to No	ote
English	Refer to the notes on Unit 7: Focus on Writing and Spear Complete Section B Use of English Question 1 in the wor			
	B Use of English Look at these sentences using relative pronouns: I can a student who is studying English. The good talkers, whom you admire, know these rules. 	Write complete sentances need to use some pronoun There is a film on at the cinem A fireman is a person Is this the article in the newsp Do you know the reason Do you know the reason Do you think they would forgu A cathedral is a place That was the girl The carpenter is a craftsman To Wimbledon is a club	s more than o	people play tennis. they got married? itwould like to see. the left the room so quickly? makes things with his hands. passed all her exams. talks about the best hotels?
Mathematics	Factor Theorem https://www.youtube.com/wate Answer to Homework Exercise 1		Homew and 9	ork Exercise 1D #1c,e 5
Chemistry	View 13.4 Specific heat https://youtu.be/qDrcHR4tSdE			nd fill in the blanks for 13.4 Heat into the Chemistry ok
Physics	Section 11C Center of mass Explosions and Center of Mass <u>https://www.youtube.com/watch?v=1lhAD88fWG8</u> Read Textbook page 257		(page 2	e solution of Example 11-9 58) in your exercise book. Section Review Questions 1
Portuguese	Conteúdo: TUDO OU TODO. Objetivo: Estudantes pode ser: * Diferenciar tudo e todo. - Tudo ou todo https://www.youtube.com/watch?v=uT9YvLxYX8c		por favo abaixo pergun	Após assistir ao video, or clique (click) no link e responda as tas. forms.gle/9vcoLCLB77vs

Homework_Day 4 (27 May 2021)

Subject	Click on the Youtube Links	Things to Note	
English	Article-a-Day Week → Korean Art		
	How to get to your Article for Day 2		
	Click → <u>www.readworks.org/student</u>		
	1. Enter class code 55QG3L		
	2. Click on YOUR NAME.		
	 The default password is 1234. Click on one of the two articles you 	will like to read.	
	Read an article a day to find out more abo	out Korean Art. After reading each article, um of 50 words) what new knowledge you	
	have gained from the reading the article.	an of 50 words) what new knowledge you	
	In your English exercise book, write the me	aning of the words in blue found in the	
	article (If any)	Ű	
Mathematics	Factorisation of Cubic Expressions	Copy Worked example 12	
Wathematics			
	View	Practise Now 12 #1, 2	
	https://youtu.be/vUNgcN6MbjA		
Chemistry	View 13.5 Enthalpy (Heat) of Reaction	Copy and fill in the blanks for 13.5	
	https://youtu.be/qD7PDOhqbpM	Enthalpy (heat) of Reaction into the	
		Chemistry Notebook	
Physics	Section 11C Angular momentum	With the help of the glossary	
	https://www.youtube.com/watch?v=iWS	(pages 710 to 728) Write down the definitions of the	
	<u>u6U0Ujs8</u>	following words in your science exercise	
	Read Textbook pages 259 and 260	book:	
		- Center of mass	
		- Angular momentum	
		Do 11C Section Review Questions 3 and 4	
Portuguese	Conteúdo: VOCABULÁRIO DE		
i ui tuguese	COZINHA.		
	Objetivo: Estudantes pode ser:		
	Cujetivo. Estudantes pode ser.	Escreve 5 coisas da cozinha e traduz	
	 Identificar os nomes 	com língua Inglês.	
	das coisas na cozinha.		

	 46 Things in the kichen in portuguese <u>https://www.youtube.com/watch?v=pN</u> <u>cr2CLxLPA</u> 	
PE/Health	SPMS (Timor-Leste): How to prevent the spread of COVID-19 Watch the Video by Dr Linus and fight the COVID-19 Pandemic together. <u>https://www.youtube.com/watch?v=fhaf</u> <u>mmN04i8</u>	List the 4 important ways we can do to help prevent the spread of the virus. 1. W a m 2. W y h 3. S d 4. G V (if suitable and available)

Homework_Day 5 (28 May 2021)

Subject	Click on the Youtube Links	Things to Note		
English	Readworks.org			
	Click → <u>www.readworks.org/student</u>			
	 Enter class code 55QG3L Click on YOUR NAME. The default password is 1234. 			
	Read the story " The Teen Who Won a Nobel Prize ". Build up your vocabulary, answer the questions and submit. If you score less than 3 out of 5, you will have to redo the questions.			
	Write down the meaning of the following words four Exercise book	nd in the passage in your English		
	 Oppressions Fiercely Conviction 			
Mathematics	Synthetic division	Try Practise Now #1, 2 using		
	https://youtu.be/WRkgMDVIETE	synthetic division		
Chemistry	13.6 Enthalpy (Heat) of Formation	Copy and fill in the blanks for		
	13.7 Enthalpy (Heat) of Combustion	13.6- 13.8 into the Chemistry Notebook		
	13.8 Calculating Enthalpies of Reaction			
Physics	11C Center of Mass and Angular Momentum	Do 11C Section Review Questions 5 and 6		
	Recap on Angular momentum <u>https://www.youtube.com/watch?v=MULe4xv31</u> <u>Vk</u>	Try to answer on your own based on what you have read in the textbook.		
Portuguese	- Basics portuguese <u>https://www.youtube.com/watch?v=Yjq5eJn53</u> <u>OY</u>	Copia 10 frases em Portuguese e traduz para Inglês		