Science work – Year 10 – Triple Physics

The tasks to work through each week from your CGP guide and workbook from June 15th until the end of the summer term are given below. You will also have a short Educake test and additional online resources to help you with your work will be given. The additional resources will be updated frequently and links to these will be available on the school website.

Groups:

Week	Торіс	CGP Guide pages	Workbook pages	Educake task	Additional resources
15/6/20	P1 review	11-23	1-12	P1 Review	BBC bitesize, Physics and Maths Tutor
	Task Instructions: Co	mplete the	P1 review quest	ions (CGP Guide, pg	23) Identify strengths and
	weaknesses by marking your answers. Pick two pages that contain information you didn't know.				
	Create a mind map from those two pages.				
22/6/20	Longitudinal and Transverse waves	73-73	71-72	Longitudinal and Transverse waves	Animations that show the waves: https://www.acs.psu.edu/drussell/D emos/waves/wavemotion.html
					What are seismic waves? <u>https://www.britannica.com/video/</u> <u>181934/rock-vibrations-Earth</u>
	Task Instructions: Dr	aw a cartoo	for each type of y	vava. Craata a tabla l	earthquake-waves-P-surface
	Task Instructions : Draw a cartoon for each type of wave. Create a table listing the similarities and difference of each type of wave. Explain how experiments can be used to demonstrate wave properties.				
29/6/20	Reflection	75	73	Reflection of light	Reflection of light <u>https://www.youtube.com/watch?v</u> <u>=8K6gOST8pZk</u>
					BBC bitesize reflection https://www.bbc.co.uk/bitesize/guid es/zdwnb9q/revision/2
	Task Instructions : Read CGP Guide pages and explain the difference between light reflection on plane surfaces and uneven surfaces. Draw a diagram and explain how the angle of incidence relates to the angle of reflection.				
6/7/20	Refraction	76	74	Refraction of light	Refraction video <u>https://www.youtube.com/watch?v</u> <u>=UUc44Vg5pCl</u> Refraction website
					https://www.gcse.com/waves/refrac tion2.htm
	Task Instructions : Read CGP Guide page, bottom half. Explain what refraction is, use diagrams to explain. Explain the difference between light passing from a dense to less dense medium, from light passing from a less dense to dense medium.				
13/7/20	Electromagnetic waves	76	74	Electromagnetic waves	Electromagnetic spectrum video https://www.youtube.com/watch?v =u5vkYjV1V1A
					Electromagnetic spectrum NASA website: <u>https://imagine.gsfc.nasa.gov/scienc</u> <u>e/toolbox/emspectrum1.html</u>
	Task Instructions : Read CGP Guide page, top half. List the main waves in the electromagnetic spectrum. Create a mnemonic to remember the order. List two uses and properties for each of the waves.				