

**Year 10 Off line Science work tracker**

	Day	Lesson date	Period	Subject	Title	Page ref	Lesson details	Additional resources	Completed ?
Week B	Monday	20.04.20	P3	Biology	B18.1 population explosion	286 - 287	Read through the double page spread. Task 1: answer questions 1 and 2. Watch the daily news broadcast for information on how the Covid-19 pandemic is affecting the global levels of pollution. Write a paragraph sharing your thoughts on how this pandemic is changing the global pollution problem. Additional copies of online reports are provided in this pack of resources.	Covid-19 impact on pollution and Italys pollution news	
	Tuesday	21.04.20							
	Wednesday	22.04.20	P5	Chemistry	C14.1 Finite and renewable resources	206-207	Read through the double page. Task 1: Write out a definition for the following terms; Finite, renewable, sustainable. Task 2: Answer questions 1,2,3 in full sentences. Task 3: Look at figure 2. The first graph shows the number of years left of resources if we continue using them at the current rate. Look at the last three columns for the finite resources Oil, Gas and Coal. Write a paragraph, giving your ideas on how we could extend the number of years we have of these resources remaining. Think about renewable technology and the part that you could play in reducing their use in your own home.	Textbook only	
	Thursday	23.04.20	P1	Physics	Centre of mass	124-125	Centre of mass read through double page spread and answer all questions both in text questions and summary questions. Explain the experiment to find the centre of mass of an irregular shaped object	textbook	



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Week		Tuesday	28.04.20	P5	Physics	Moments and equilibrium	126-127	Moments and equilibrium read through double page spread and answer all questions both in text questions and summary questions. Use the ideas behind this concept to explain how scales with sliding masses helps find the mass of an object		
		Wednesday	29.04.20	P5	Biology	B18.3 Air pollution	290-291	Read the double page spread and answer Q 1-4 in full sentences with the question included.	Texty book only	
		Thursday	30.04.20	P1	Chemistry	C14.3 Treating waste water	210 - 211	Read the double page spread. Copy out figure 1 into the center of a page. Around the diagram, write in the bullet points (below 'figure 1' in the book - these are numbered 1-4) what is happening at each stage of the waste water treatment process.	Textbook only	
				P2	Physics	The parallelogram of forces	128 - 129	The parallelogram of forces read through double page spread and answer all questions both in text questions and summary questions. Complete the parallelogram of forces worksheet using scale diagrams	Parallelogram worksheet and textbook	
		Friday	01.05.20							
	Monday	04.05.20	P3	Biology	B18.4 Deforestation and peat Destruction	292-293	Read through the double page spread. Answer Q 1-3 writing out the question in addition to the answer in full sentences. Make sure that you can define the term 'biodiversity'.	Text book		
	Tuesday	05.05.20								

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Week B	Wednesday	06.05.20	P5	Chemistry	C14.4 Extracing metal from Ores	212 - 213	<p>Read through the double page spread carefully. Even though this says higher if it ogfen examined at foundation level for should be completed by all. Task 1: Find the definition for the following terms; Ore, Electrolysis, Bioleaching, Displacement; reactivity series of metals. All of these terms you have used before in your work. If you are unsure make sure you go bakc and read the chapter or lesson with those works in them (see the end of the book to help you find them).</p> <p>Task 2: Metals can be extracted from ores in several ways including Electrolysis, Bioleaching and dissplacement. Using the infomation on the page write a paragram about each technique, explaining how the metal is seperated from the rock.</p> <p>Go further - Task 3: Link to Biology. If you can find out about phytomining (you could ask Alexia for example). This is a more sustainable way to extract metals from the ground as it has a low ecological impact. What is the technique and why would it be preferable to open cast mining to get at ores?</p>	Textbook only	
	Thursday	07.05.20	P1	Physics	Resolution of forces	130- 131	<p>Resolution of forces read through double page spread and answer all questions both in text questions and summary questions. complete the worksheet using scale diagrams</p>	textbook and worksheet	

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		P2	Biology	B18.5 Global warming		Read through the double page. Understand that the greenhouse effect contributes to global warming by reflecting lower energy radiation that would normally escape the atmosphere, back towards the earth. Task 1: Copy figure 2 and explain what it shows. Task 2: Answer Q 1-3 from the text book.	Text book	
Friday	08.05.20							
Monday	11.05.20	P2	Chemistry	C14.5 Life cycle assessments	214-215	<p>Read through the double page spread. Life cycle assessments are carried out for every new product that is brought to market. These assessments look at the environmental impact of a product from the gathering of the raw materials, the process of those materials, the transport and use by the user and then the disposal of it.</p> <p><b>Task 1:</b> A supermarket has asked you to undertake a Life cycle assessment (LSA) to find out whether they should use paper bags instead of plastic ones at their checkouts. Use the flow chart from page 214 (Bold), and the graphic attached to this pack (what is the life cycle of plastic and green bags) to write an argument either <b><i>for the use of plastic bags or against their use</i></b>. Your argument should make at least 3 separate points based on the different stages of the LSA and COMPARE each type of bag to the other on these points. Remember to come to a conclusion at the end.</p>	Textbook + Graphic - what is the life cycle of a plastic and green bag?	

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Week A		Tuesday	12.05.20	P5	Physics	Speed and distance time graphs	134-135	Speed and distance time graphs. Read the double page spread and answer all the questions including both in text questions and summary questions. Complete the calculating speed worksheet	textbook and worksheet	
		Wednesday	13.05.20	P5	Biology	B18.6 The impact of change	296-297	Read through the double page spread and answer book questions 1 and 2.		
		Thursday	14.05.20	P1	Chemistry	C14.6 Reduce reuse and recycle	216-217	<p>Read through the double page spread.</p> <p>Task 1: Answer questions 1-5 in full sentences, writing out the question in addition to the answer.</p> <p>Task 2: We all have a responsibility to make our finite resources such as aluminium go further and to preserve them for future generations (sustainability). Look around your own home. For each of the 'R's (reduce, reuse, recycle) think of something you could do personally to make a difference. For example; for reduce you might say, next time I am buying a coffee I am going to use a re-useable mug to reduce the use of plastic cups. For Reuse, You might say I am going to look for my next party outfit in a charity shop or online auction sites, to reuse perfectly good items of clothing. For recycle, you might pledge to make sure that all of the recycling is washed and sorted so that it can be recycled by the council.</p> <p>Task 3: Extension: If you can find out what a blast furnace is and how it works to separate iron from iron ore.</p>	Textbook + Graphic - Reduce, reuse recycle	

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		P2	Physics	velocity and acceleration	136-137	Velocity and acceleration. Read the double page spread. Answer the in text questions and the summary questions. Complete the acceleration calculations worksheet	textbook and worksheet		
Friday	15.05.20								
Week B	Monday	18.05.20	P3	Biology	B18.7 maintaining biodiversity	298-299	Read through the double page spread. Using the information on these pages produce a poster or a leaflet that would help to educate teenagers on how they can help maintain biodiversity.	Text book	
	Tuesday	19.05.20							
	Wednesday	20.05.20	P5	Chemistry	C14 Summary and practice questions	218-219	Answer the questions from this double page. The answers are in this pack.	Textbook + Answers to C14 book summary Q	
	Thursday	21.05.20	P1	Physics	More about velocity time graphs	134-135	More about velocity time graphs. Read the double page spread. Answer the in text questions and the summary questions. Complete the speed velocity acceleration graph practise worksheet	textbook and worksheet	
	Friday	22.05.20	P2	Biology	Check point quiz and mark	P310-311	Please have a go at the question on this page. Use the mark scheme in your booklet to assess and correct work where needed. The answers to the book spreads that you have been working on are also attached so that you can go back through your work and mark it.	Text book + End of chapter questions markscheme and double page spread mark schemes.	













