Science work – Year 12 – A-level– Full website version.

The tasks to work through each week from your kerboodle test book.

Teacher 1 work: Mr Lomas / Mr Burley

Week	Topic	Kerboodle	Kerboodle test	Additional		
VVEEK		pages		resources		
15/6/20		Y2 55-58				
		following (potential gluconeogenesis, glycogenesis. Answer summary Lesson 2 Instructial type 2 diabetes may potential treatme Read and answer Describe how insulting at GCSE and value Look at Fig3 on paying 1 diabetic an Lesson 3 Instructial treating diabetes. Answer summary	the questions in the purple box at the top of page 56. Ilin is produced using bacteria (You will have covered vill do it again in ch21 page 228). 57 and describe the difference in glucose levels for a d a non-diabetic person. ons: Make notes on the potential uses of stem cells in			
22/6/20		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	I			
22/6/20		Y2 58-62	ons: Study and make notes on 'fight or flight' response.			
		more detail where Draw and annotat Lesson 2 Instructi Answer practice q Lesson 3 Instructi Describe the role	ırt rate.			
29/6/20		Y2 64-65				
		Lesson 1 Instructions: Do the activity on pg 64 (green box) Answer the summary questions (pg 65) Lesson 2 Instructions: Practice questions for chapter 13 (pg 42-43). Revise any sections you struggle with. Lesson 3 Instructions: Practice questions for ch17 (pg 140). Revise any sections you struggle with.				
6/7/20		Y2 158 Y1 325, 146				
13/7/20		with. Lesson 2 Instructi struggle with. Lesson 3 Instructi struggle with.	ctions you struggle se any sections you e any sections you			
13///20		Y1 168, 38, 82				

Lesson 1 Instructions: Practice questions for ch 7 (AS book pg 168). Revise any sections you struggle with.

Lesson 2 Instructions: Practice questions for ch 2 (AS book pg 38). Revise any sections you struggle with.

Lesson 3 Instructions: Practice questions for ch 3 (AS book pg 82). Revise any sections you struggle with.

Teacher 2 work: Mr Lomas / Mr Ihsan / Mr Carter and Mrs Thomson

Week	Topic	Kerboodle	Kerboodle	Additional resources		
		pages	test			
15/6/20	18.4	148-149				
	Oxidative	Lesson 1 Instructions:		Video 1 ETC (~11 mins):		
	Phosphorylation	Watch both videos and read		https://www.youtube.com/watch?v=jU2lnPwTXP		
		through the information in		<u>0</u>		
		the textbook.		Video 2 ETC (~7 mins):		
		Lesson 2 Instructions: Write		https://www.youtube.com/watch?v=LQmTKxI4		
		a paragraph to explain:		Wn4		
		a) What would happen if there WASN'T a H+ concentration gradient?				
		_ ·	es cyanide stop			
		respirat				
		c) Compare Oxidative to substrate phosphorylation.				
22/6/20	40 5 4	i	ji yiation.	Video 1 (~7 mins)- Anaerobic respiration		
22/0/20	18.5 Anaerobic	150 -		https://www.youtube.com/watch?v=lraQjXzlobg		
	Respiration	151 &		Video 2 (~2 mins) – Sperm whale adaptations		
		153		https://www.youtube.com/watch?v=bRVPrILHDX		
				nttps://www.youtube.com/waten:v=bkvrnEnbx		
		Lesson 1 Ins	t ructions : Watch	the videos and read the relevant textbook pages.		
		Complete a table of similarities and differences between lactate fermentation				
		(animals) and alcoholic fermentation (yeast & plants)				
		Lesson 2 Instructions: Draw and label a diagram of a sperm whale detailing its				
	adaptations for long dives.					
29/6/20	18.6	155-156	_	Video 1 Fat metabolism (~6 mins)-		
	Respiratory			https://www.youtube.com/watch?v=acA5iF1zrDI		
	1 -			Video 2 Amino acid metabolism (~13 mins)		
	Substrates			https://www.youtube.com/watch?v=I0V-		
				Xmps1mE		
				Video 3 DKA (~4 mins)-		
				https://www.youtube.com/watch?v=NwBzGfKY_		
				<u>gE</u>		
		Lesson 1 Instructions : Draw a diagram showing aerobic respiration when				
		proteins or fats are substrates (Glycolysis, Link reaction, Krebs cycle & Electron				
		transport chain). Use the textbook and videos to assist you.				
			Instructions : Skim read these two published scientific articles.			
				icles/ejcn2013116/ and		
			https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2129159/ Do you trust one			
			article more than the other, explain why in a paragraph. Priofly summarise the effects of a low carbohydrate diet (~5 bullet points)			
		Briefly summarise the effects of a low carbohydrate diet (~5 bullet points)				

6/7/20	Experiments and Practical's	152, 156 & 157	Video 1 Anaerobic Yeast (~8 mins) - https://www.youtube.com/watch?v=h3dQ H0ue N4 Video 2 RQ and respirometers (~5 mins) https://www.youtube.com/watch?v=yfv13Q 67Z
		Lesson 1 Instructions: Write a protocol to perform Anaerobic inveyeast at three different temperatures. Clearly identify independent and control variables and include an equipment list, method & result (ready to collate data) Lesson 2 Instructions: Write a protocol to compare the respiratory and mung beans. Clearly identify independent, dependent and corrupt and include an equipment list, method & results table (ready to contact the contact to the contact t	
13/7/20	Creative revision tool	142-157	Interactive notes templates - https://thecandyclass.com/2015/07/the- interactive-notebook-template-types/ Slotted revision Wheel template - https://www.trythisteaching.com/2013/05/litera cy-wheel/
		which topics Lesson 2 Ins flip books of Kind of like answers. I w	structions: Review the respiration chapter. Reflect on your learning — s are the most difficult? Complete these textbook questions. structions: Create a revision tool for this topic. I would recommend or a slotted wheel (especially for Krebs Cycle) so you can test yourself. flashcards - questions are on the outside & underneath are the yould not recommend mind maps, concept maps or glossaries - they to be useful to revise respiration as it is a process.