## **UNIT 1 BIOLOGY**

1 1	4.4 Milest and the above stanistics of living things?						
1.1	1 What are the characteristics of living things?						
	CREATE a title page in your journal for unit 1. Be sure to include the whole title of the unit. Make						
	the title page colourful and relevant to the topic.						
	Online Activity: 'What is Life?'						
	Look at the	gallery of pictures on the website and respond in your journal.					
	Which of the	ese pictures is living and which is non-living?					
	How did you	udecide which was living and which was non-living?					
	Compile a lis	Compile a list of characteristics that you think define something as living or non-living					
	While you WATC	H the following VIDEOS continue to add to your list of characteristics of life in					
	your journal						
	Video: 'What is Life?'						
	Video: 'What is Biology?'						
	Textbook: Read	pages 6-11					
	Workbook: Com						
	Tronnocom Com	Workbook: complete pages 2-9  Workbook: pages 7-9					
		Textbook: Read 'AT Issue' on page 12, select one of the 'Dig Deeper' questions					
		to answer. Your answer should be written in proper paragraph form and					
	Choose ONE:	should be at least 150-200 words.					
		Textbook: Complete question 7 on textbook page 13. Your answer should be					
		written in proper paragraph form and should be at least 150-200 words.					
1 2	) Mhara da listin						
1.2	`	g things come from?					
	Textbook: Read						
	Video: 'Cell Theo						
		story of cell theory'					
	Video: 'Cell theo						
	Workbook: comp	• •					
	Textbook: Read	-					
	Video: 'Are virus						
		d the team at Tuft's University say about viruses being alive?					
		choose to watch this video 'ADVANCED: What is life?'					
	1	ournal answer the following questions with your own opinion. Are viruses on					
		Are viruses, which have infected a cell, alive?					
	Workbook: com	plete page 10, 12-13					
		Workbook: complete pages 14-16					
		Textbook: Read 'AT Issue' on page 20, select one of the 'Dig Deeper' questions					
	Chaosa ONE:	to answer. Your answer should be written in proper paragraph form and					
	Choose ONE:	should be at least 150-200 words.					
		Textbook: Complete question 3 on textbook page 21. Your answer should be					
L		written in proper paragraph form and should be at least 150-200 words.					
	Classroom:						
	1) Read	'Investigation 1-A' on textbook pages 22-23					
		'Care and Use of the Microscope' on textbook page 364					
		act your teacher to set up a time to complete the activity in the classroom					
	· ·	e to the classroom to complete the 'Investigation 1-A' on textbook page 22-23					
		ur journal complete the section 'Analyze and Interpret' and 'Conclude and					
		Communicate' (textbook page 22-23)					
1.3	•	ifferent from one another?					
	Textbook: Read	pages 24-28					
		you watch the video, download and print the assignment, complete the handout					
		while you watch the video					
	Video: 'Prokaryotic vs Eukaryotic cells'						
	Online: There are two GIFs by the Amoeba Sisters comparing Eukaryotes and Prokaryotes. In your						
	journal make a similar visual note which compares Eukaryotes and Prokaryotes.						
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	Workbook: complete pages 19-20				
	Video: 'The cell as a factory'				
	Workbook complete page 21				
	Textbook: Read pages 29-31				
		Handout: before you watch the video, download and print the assignment, complete the handout			
	while you watch the video				
	Video: 'Plants vs Animal Cells'				
		Online Activity: Cell Explorer			
	Video: 'Photosyr				
	Online Activity: 'Photosynthesis'				
	Online Article: 'P				
	Video: Cellular R				
	Handout: before you watch the following videos, download and print the assignment, complete				
	the handout while you watch the videos				
	Video: 'Cellular Respiration VIDEO'				
	Video: 'Photosynthesis VIDEO'				
	Photosynthesis and Cellular Respiration are related. View the GIF by the Amoeba Sisters which outlines the chemical formulas for both photosynthesis and cellular respiration. In your journal				
	complete a similar visual note.				
		plete pages 22-23			
	1	wish to watch 'EXTRA: Photosynthesis and Respiration'. This is a good summary			
	video.	[ 1]			
		Workbook: complete pages 24-26			
		Textbook: Read 'AT Issue' on page 32, select one of the 'Dig Deeper' questions			
	Choose ONE:	to answer. Your answer should be written in proper paragraph form and			
		should be at least 150-200 words.			
		Textbook: Complete question 6 on textbook page 33			
		'Write a script for a skit in which four people act out the processes of			
		photosynthesis and cellular respiration'			
1.4		ons occur between humans and micro-organisms?	T		
		e micro-organisms?'			
	Textbook: Read				
		plete pages 27-33			
	Video: 'Bacteria	vs Viruses'			
	Video: 'Flu Attac	k'			
	Video: 'Symbiosi				
		Are all viruses bad?'			
	Video: 'Gut micr				
	Video: 'Probiotic	ss and Prebiotics'			
	Video: 'Know yo	ur gut'			
	Video: '25 bacte	ria facts that might make you feel dirty'			
	Video: 'Microbes	s use in industry'			
	Online: There is	a GIFs by the Amoeba Sisters summarizing the usefulness of bacteria called			
	'Misunderstood	Bacteria'. In your journal make a similar visual note which summarizes all that			
	you have learned	d about bacteria.			
		Workbook: complete pages 34-36			
	Choose ONE:	Textbook: complete questions on page 44 'Science at Work'. For question 2,			
		create a single page advertisement that outlines the career you have chosen.			
		Include a job description and try to answer the following questions the best you			
		can (be sure to cite all of your sources). What education is needed for this			
		career? What wage does this career earn? What is the typical day in the life of			
		someone in this career? Include at least two pictures relevant to the career			
		(include source information). Make the advertisement colourful and creative.			
		Textbook: complete questions 4, 5, 7,8, 9 on page 45			

1.5 H	ow does the k	pody protect us from pathogens?			
Te	Textbook: Read pages 46-49				
Vi	Video: The immune system				
W	Workbook: complete pages 38-41				
Te	Textbook: Read pages 50-52				
Vi	Video: 'Epidemics and Pandemics'				
Vi	Video: 'How Pandemics Spread'				
Vi	ideo: 'Ebola Vir				
Vi	ideo: 'Measles '				
Vi	Video: 'Smallpox'				
Vi	ideo: 'How a vir				
W	Workbook: complete pages 42				
Te	Textbook: complete question 1 on page 55. Write your answer in your journal.				
		Workbook: complete pages 43-45			
		Textbook:			
		Textbook: Read 'AT Issue' on page 53, select question 1 or 2 from the 'Dig			
,	Choose ONE:	Deeper' section. Your answer should be written in proper paragraph form and			
`	CHOOSE ONE.	should be at least 150-200 words.			
		Textbook: Read 'AT Issue' on page 54, select question 1 or 2 from the 'Dig			
		Deeper' section. Your answer should be written in proper paragraph form and			
		should be at least 150-200 words			
		hat medicines help protect us from microbes that make us sick?			
		ages 64-66 and 68-69			
Vi	ideo: 'Vaccines'	,			
	extbook: read p	-			
	ideo: 'Antibioti				
W	Vorkbook: comp	plete pages 47-51			
		Textbook: complete 'Make a Difference' activity on pages 72-73 in your			
		textbook			
(	Choose ONE:	Textbook: complete 'Make a Difference' activity on page 74 in your textbook			
		Textbook: complete 'Structured Inquiry' activity on page 76-77 in your textbook			
		Textbook: complete 'Structured Inquiry' activity on page 78 in your textbook			
_	1 ASSESSMEN				
	•	erms' complete worksheet			
	Textbook: Read pages 343-348				
	Complete the 'Instant Practice' questions on pages 343, 345, 346, 347 and 348				
	Download: 'Marking Rubric' this is how you will be assessed for the following assignment.				
	Download 'What's going on at Newo high school?' complete worksheet. NOTE: you will not be				
W	watching the video that goes along with this.				