1. Complete the text then listen to the recording and check (timing 1:04-1:55)

The human body	y is made up of many	which are r	which are made of many types	
of	These	are made of individ	are made of individual units called	
	Each of these	contains 46	23	
inherited from each of your parents.		contain segn	contain segments that are called	
	Each	contains specific information	ation that makes us	
unique. The	is made	e of through	n a set of complex	
instructions.	directs	the body to make	They are used	
to make and run	our body			
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http://www4.utsouthwestern.edu/cellbio/shay-wright/intro/sw_intro.html

2. Check the pronunciation

telomere	/ˈtɛlə,mɪər, ˈtilə-/	chromosome	/ˈkroʊmə,soʊm/
enzyme	/'εnzaım/	apoptosis	/āp'əp-tō'sĭs, āp'ə-tō'-/
telomerase	/tə'lɒmə,reis; -,reiz/	senescent	/s1'nɛsənt/
protein	/'proutin; -ti 1n/	senescence	/sĭ-něs'əns/
chromosome	/ˈkroʊmə,soʊm/	template	/'tɛmplɪt/
inhibit	/1 n'h1b1t /	arteriosclerosis	/ar,t1əriousklə'rous1s/
ulcer	/'ʌl sər/	plaque	/plæk/

3. True or False?

- a. Telomere is the segment of DNA that occurs at the ends of chromosomes.
- b. In reproductive cells the telomere shortens occasionally.
- c. Telomeres function by helping chromosomes to lose base pair sequences at their ends. Each time a cell divides, some of the telomere is lost.
- d. When the telomere becomes too long, the chromosome reaches a "critical length" and can no longer replicate.
- e. Telomerase is an enzyme that causes telomeres to lengthen, facilitates cell division and may account for the mortality of cancer cells.
- f. Telomerase activity is regulated during development and has a very low, almost undetectable activity in somatic (body) cells. Because these somatic cells do not regularly use telomerase, they age.
- g. If telomerase is activated in a cell, the cell will continue to grow and divide.
- h. Telomerase enzyme works in harmony with the telomere clock in the cell.
- 4. Watch the video and check your answers. (timing 1:55–5:08, 6-6:54) http://www4.utsouthwestern.edu/cellbio/shay-wright/intro/sw_intro.html