Name Date	
DNA Coloring - Transcription & Translation	
Transcription	
RNA, Ribonucleic Acid is very similar to DNA. RNA normally exists as a stranded double helix of DNA). It contains the same bases, adenine, gu no thymine found in RNA, instead there is a similar compound called ur	anine and cytosine. However, there is
Transcription is the process by which RNA is made from DNA. It occurs the \boldsymbol{x} in it near the nucleus with the word TRANSCRIPTION and proceed key below	
Thymine = orange Adenine = dark green Guanine = purple Cytosine = yellow Uracil = brown	
Color the strand of DNA dark blue (D) and the strand of RNA light blue gray. $ \label{eq:color_power} % \begin{subarray}{ll} \end{subarray} % \be$	(R). Color the nuclear membrane (E)
Translation	
Translation occurs in the cytoplasm, specifically on the ribosomes . T travels out to the ribosome to carry the message of the DNA. Here at the translated into an amino acid sequence. Color the ribosome light green threads through the ribosome like a tape measure and the amino acids translation area should also be colored light blue, as it was colored in the	e ribosome, that message will be (Y) and note how the RNA strand are assembled. The RNA strand in the
Label the box with the X in the translation area with the word TRANSLA	ATION.
Important to the process of translation is another type of RNA called Trathe amino acids to the site of protein synthesis on the ribosome. Color to	
A tRNA has two important areas. The anticodon, which matches the co- codons are sets of three bases that code for a single amino acid. Make anticodon the same color as the bases on your DNA and RNA strand -	sure you color the bases of the
At the top of the tRNA is the amino acids. There are twenty amino acids proteins of all kinds, these are the proteins that are used in life process instance, you are using enzymes that were originally proteins that were tRNA has a different amino acid which link together like box cars on a transfer or the transfer or	es. When you digest your food for assembled from amino acids. Each
Questions:	
1. How many different kinds of bases can be found on DNA 2. What base is found on RNA but not on DNA? 3. How many bases are in a codon? In an anticodon? 4. How many amino acids are attached to a single transfer RNA 5. The process of making RNA from DNA is called	?
6. The process of assembling a protein from RNA is called	and it
occurs in the 7. Describe two ways in which RNA differs from DNA:	

