From DNA to Protein

1. Complete the following chart comparing DNA & RNA. DNA/RNA review.

	DNA	RNA
Type of sugar	Deoxyribose	Ribose
# of strands in a molecule	2	1
Names of bases found in	Adenine, Thymine, Cytosine, Guanine	Adenine, Uracil, Cytosine, Guanine
Places found in the cell	Nucleus (but also mitochondria & chloroplasts)	Nucleus & cytoplasm

2. List the 3 types of RNA and the function of each.

	Type 1	Type 2	Type 3
Name	**mRNA messenger RNA**	**rRNA ribosomal RNA**	**tRNA transfer RNA**
Function	**Carries message of how to make the protein from the DNA to the ribosome**	**Makes up the ribosome which acts as an enzyme to read the mRNA and make the protein**	**Carries the amino acids to the ribosomes for protein synthesis**

3. Describe the process of transcription. This may be done in paragraph format, bulleted form, flow chart, etc. There are also 2 transcription videos in the student folder.