Title- DNA vs RNA (TOC)

Purpose-

- DNA is too big to leave the nucleus.
- RNA is made (Transcription)
  - Small segments of directions
- RNA leaves the nucleus and travels to the endoplasmic reticulum.
  - directions are read by ribosomes and the protein is made.

Activity-

	DNA	RNA
Size	**Large**	**Small**
Where	**Nucleus**	**Cytoplasm**
Sugar	**Deoxyribose**	**Ribose**
Purpose	**Directions for EVERYTHING**	**Directions to make 1 protein**
Bases	**A-T** **C-G** **Thymine**	**A-U** **C-G** **Uracil**
Shape	**Double Helix** **Twisted Ladder**	**Linear** **Straight**
Code	**A** **T** **A** **C** **G** **G** **T** **A**	**U** **A** **U** **G** **C** **C** **A** **U**
Reason	**DNA codes for RNA**	**RNA codes for amino acids (building blocks of proteins) called translation**

DNA → **DNA** Replication

Making copy of entire instructions

DNA → mRNA Transcription

Sending small message of what to make

mRNA → tRNA

Messenger telling workers the 3 base code.

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tRNA → **Protein** Translation

Making proteins using the building blocks: Amino Acids