

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.

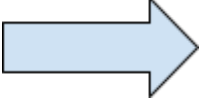
Activity-

	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

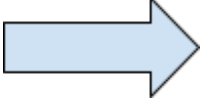
Replication

Making copy of entire instructions

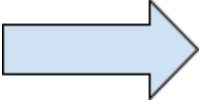
DNA  mRNA

Transcription

Sending small **message** of what to make

mRNA  tRNA

Messenger **telling** workers the 3 base code.

tRNA  Protein

Translation

Making proteins using the building blocks: Amino Acids