Sort each of the following characteristics as either DNA, RNA, or Both.

Deoxyribonucleic Acid

double stranded

Makes up chromosomes

A, G, C

Ribonucleic Acid

Uracil (U)

Read by ribosome

Deoxyribose Sugar

Ribose Sugar

Stays in the nucleus

leaves the nucleus

Thymine (T)

single stranded

Made of nucleotides

|  |  |  |
| --- | --- | --- |
| DNA | Both | RNA |
|  |  |  |

DNA to mRNA

You are mRNA.  Your task is to enter the nucleus and copy the code into RNA so that it can be understood by the ribosome.  For each example write the letter of the mRNA nitrogen base that would compliment the DNA base.

A picture containing scissors

Description automatically generated



A picture containing scissors

Description automatically generated

A picture containing scissors

Description automatically generated

Completes each statement.

1. DNA is found in the  of eukaryotes and the  of prokaryotes.

2. DNA has the base  while RNA uses  .

3. DNA is  stranded in a helix while RNA is  stranded.

4. mRNA enters the nucleus to create an  copy of DNA.

5.  is used to carry the genetic code from DNA to the ribosomes

6. rRNA makes up the  .

7.  is read by the ribosome.

8.  brings amino acids to matching sections of mRNA called  .

9.  make up a protein.

10. Chains of proteins make up a  .