

DNA

vs

RNA

of strands

double stranded

single stranded

sugar

deoxyribose

ribose

nitrogenous bases

adenine
thymine
cytosine
guanine

adenine
uracil
cytosine
guanine

location

in the nucleus
(replicated in the nucleus
during S phase of cell
cycle)

made in the nucleus (transcription)
used in the cytoplasm
to make proteins (translation)

function

long term storage
of genetic information,
codes for proteins

transfers genetic information
to aid the cell in protein
synthesis.