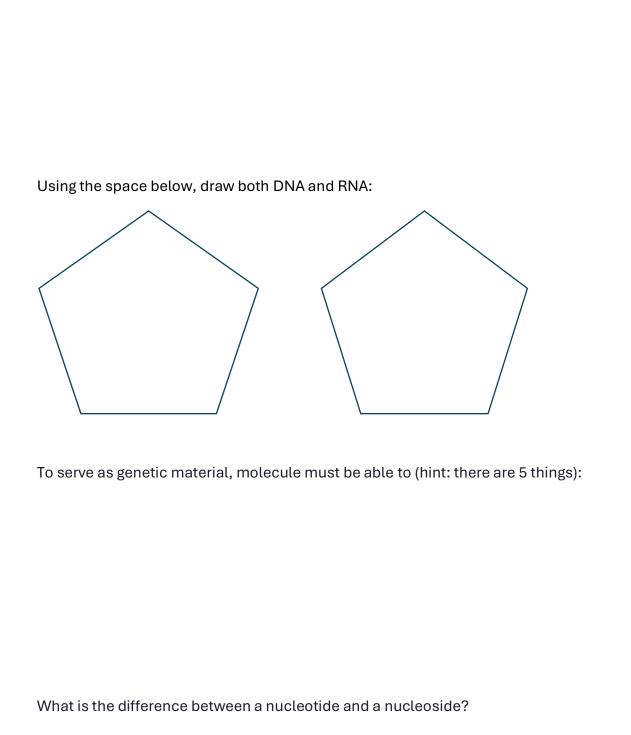
## Intro to genetics

What is the chromosomal theory of inheritance?
What is the diffidence between a gene and a chromosome?
List the differences and similarities between DNA and RNA?
Using the chart I provided, what would be the corresponding amino acid to the RNA sequence?  5'- UUUAUGGCUCACUGA-3'



What do scientists do when they are studying a gene using gene knockout?

What bases are purines? What bases are pyrimidines?
What is the difference between phosphodiester bonds and hydrogen bonds?
DNA is (negatively/positively) charged. This is caused by the (PO4-/oxygen) bonded to the (nucleoside/nucleotide). Circle the correct answer for each.
A DNA sample from a poison dart frog is found to have 18% cytosine. What is the composition of all other bases in this frogs DNA?
Describe (or draw) what Watson and crick described as the semiconservative model for DNA replication?

What is B DNA? Which forms of DNA lack guanine?
Describe all 3 classes of RNA:
mRNA:
ADMA.
tRNA:
rRNA:
What is RNA replicase and what is reverse transcriptase?

List a few reasons why viruses are unique genetically: