Protein	Sv	nthe	sis
I I O CCIII	Uy.	11 (11(

Do Now

Where is DNA located?

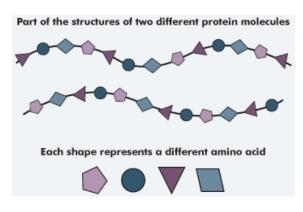
List as many facts about DNA as you can remember:



Protein Synthesis

DNA directs how proteins are made

The variety of life on earth is due to different proteins



Proteins

Proteins are made up of units called _____

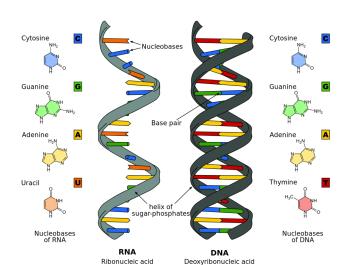
Proteins are large and have _____

Proteins differ from each other

Three letter DNA code _____ Ex. TGG

DNA vs RNA DNA

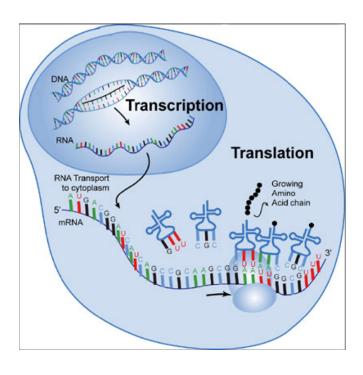
RNA

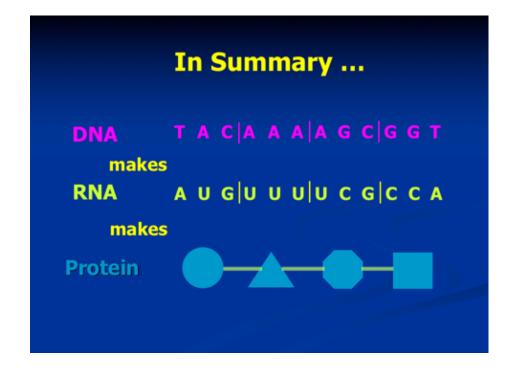


Protein Synthesis

Transcription (mRNA)

Translation (tRNA)





Section Review Questions:
1. Describe the three main differences between RNA and DNA.
2. In DNA, adenine binds with and guanine binds with
3. In RNA, adenine binds with and guanine binds with
4. List the two main types of RNA, and explain what they do.
5. In your OWN words, describe what happens during transcription.
6. In your OWN words, describe what happens during translation.
7. How is protein synthesis different from DNA replication? Think back to the cell cycle.
8. Why is genetic code considered universal?
9. What does the term gene expression mean?
10. In what way does controlling the proteins in an organism control the organism's characteristics?

Protein Synthesis