Name Period	
What is DNA?	
Nucleic Acid -	
<u>DNA</u> -	
Two major roles:	
1.	
2.	
<u>Genes</u> -	
Composition of DNA:	
DNA is made of four bases:	
1.	
2.	
3 .	
4 .	

_____ ALWAYS pairs with _____

and _____ ALWAYS pairs with _____

They fit together like pieces of a _______

When in the DNA structure

Adenine	Pairs with	
Represented by a gummy bear		Represented by a gummy bear
Guanine	Pairs with	
Represented by a gummy bear		Represented by a gummy bear

Making a model of DNA:

Scientists make models of DNA to help them visualize what DNA looks like.

You can do this, too:

- Use two long pieces of red vines for the side rails of the ladder model of DNA.
- 2. To make the steps of the ladder, use four different colors of gummy bears for the bases.
- 3. Use toothpicks to connect the bases to each other and to the red vines.
- 4. When you've assembled your model, carefully twist it a little to visualize how the DNA molecule spirals.

Conclude/Apply:

1.	Draw a sketch using the letters of each base to show your arrangement
	of bases

- 2. How many gummy bears (bases) form each step of the ladder?
- 3. What do your four colors of gummy bears represent?
- 4. Can base A form a step with base C? Explain why or why not.
- 5. Explain how chromosomes and DNA are related. Describe where in the body they are found.
- 6. How are genes related to the structure of DNA?