DYNAMIC DNA WEBQUEST!	
PART ONE: STRUCTURE OF DNA	
http://learn.genetics.utah.edu/content/begin/t Take the tour of DNA by clicking on "What is DNA	
questions below:	
1. In what organelle (CELL PART) would I find you	Jr DNA (YOUR
INSTRUCTIONS)?	
2. What does DNA stand for?	
 The DNA molecule comes in the form of a scientists call its shape a 	
4. The MIDDLE of the DNA MOLECULE is made only pair up in a particular way:	of bases. These bases will
A always pairs with	
C always pairs with	
5. What makes up the handrails or SIDES of a D at the picture) SUGAR and	
6. G stands for	
A stands for	
T stands for	
C stands for	
GO BACK TO THE TOUR PAGE AND CHOOSE	"WHAT IS A GENE?"
1. GENES aremanuals for	our bodies.
2. GENES are made of	
3. A gene or protein called	
BLOOD CELLS to carry	

4. If our hemoglobin gene is normal, the hemoglobin protein will work fine. But if the instructions in the gene are changed, or ______, changes in the hemoglobin could result in the disorder______.

5. TRUE or FALSE: YOUR DNA or GENES are responsible for your EYE COLOR.

GO BACK TO THE TOUR PAGE AND CHOOSE "WHAT IS A CHROMOSOME?"

1. If you pulled the DNA from one of your cells, it would be how long?

2. How does all of that DNA fit inside your cells? _____

3. _____are storage units for DNA.

4. TRUE or FALSE: Different organisms have a different number of chromosomes inside each cell.

5. How many chromosomes do humans have? _____

6. You received _______of your chromosomes from your ______ and ______ from your dad.

7. Males have _____ and _____sex chromosomes. Females have _____ sex chromosomes.

8. How many chromosomes does a mosquito have? _____

How many chromosomes does an onion have?

How many chromosomes does a carp have ? _____

PART TWO: DNA REPLICATION http://www.pbs.org/wgbh/aso/tryit/dna/ CHOOSE DNA WORKSHOP ACTIVITY CHOOSE DNA REPLICATION 1, the molecule that holds,
makes an copy of itself whenever
In this activity, it's up to you to make the copy.
 LOOK AT THE LOWER RIGHT HAND CORNERWhere are you located? Draw a picture that is LABELED where you are located:
What is the FIRST STEP OF DNA REPLICATION?
Where does the DNA molecule UNZIP?
NOW MATCH THE BASES TO MAKE A NEW DNA STRAND

5. A (ADENINE) always goes with _____(THYMINE)

C(CYTOSINE) always goes with _____G (GUANINE)