DNA replication Con	nputer Simulation	Name		
You will be completing	ng a computer simulatio	on for DNA replication.		
Go to this website	http://nobelprize.org/e	educational_games/medicine	e/dna_double_helix/	
Click on Play the Di	NA			
Read through the tuto	rial			
Click on organism 1.				
ROUND 1				
Click yes, start copy immediately!!!	ing DNA be read	y you will have to start putt	ing the proper nitrogen b	bases together
	will tell you how many what side had the mutati	mutations you had for rounions, right or left.	nd 1list this on the ba	ck of the
	the first DNA belong to click on the organism.	o? Match the information Write it on the back.	under "Number of" to	what it says
Write the final score a	after round 1 on the back	ζ		
ROUND 2				
Click yes, start copyir immediately!!!	ng DNA be ready	you will have to start putting	ng the proper nitrogen bas	ses together
	will tell you how many what side had the mutation	mutations you had for rour ons.	nd 2list this on the bac	ck of the
		long to? Match the informatism. Write it on the back.	ation under "Number o	f" to what it
Write the final score a	fter round 2 on the back	<u> </u>		

ROUND 3

Click yes, start copying DNA. Be ready you will have to start putting the proper nitrogen bases together immediately!!!

When your finished it will tell you how many mutations you had for round 3.....list this on the back of the worksheet as well as what side had the mutations.

**What organism in round 3 did the DNA belong to? Match the information under "Number of" to what it says in the box when you click on the organism. Write it on the back. Write the final score on the back.

ROUND 1 # of mutations on right side_____ # of mutations on left side Organism's DNA was from _____(look at directions on the front page at the **) **Total Score after ROUND 1 ROUND 2** # of mutations on left side_____ # of mutations on right side Organism's DNA was from _____ Total Score after ROUND 2_____ **ROUND 3** # of mutations on left side # of mutations on right side Organism's DNA was from _____ Total Score after ROUND 3_____ Questions 1. What does the screen do after it shows the number of mutations? Why? 2. What letter was present that you don't use? 3. Does the number of chromosomes directly relate to the complexity of an organism (ex. More chromosomes = more complex)? Go to wikipedia and type this in without the quotation marks "List of number of chromosomes of various organisms"

Explain.