DNA Replication Paper Clip Activity
Data Sheet

1	2	3	4	5	6	7	8	9	10
A	A	G	C	T	T	A	T	G	G

(1) *Predict* and fill in the complementary nucleotide base for each of the 10 primary nucleotide bases in the empty row following the rules for base pairing.

(2) Name the enzyme that "Unzips" the DNA molecule._____

(3) Name the enzyme that links the sugar and phosphates together.

_____

(4) Examine the two double-stranded DNA molecules. Are they identical or different in any way? ***Fully support and explain your answer.***

Conclusion Questions

1.. If you were asked to replicate each of the two DNA molecules on your table to create four identical DNA molecules, explain the steps you would use to accomplish the replication process.

2. What features about DNA replication causes each new DNA molecules to be exactly like the original?

3. Discuss the difference between DNA, genes and traits.

4. Diagram an example of a double helix.