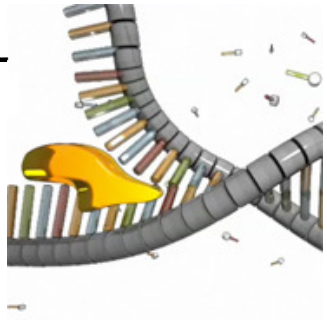
DNA Replication

Name _____
Date _____
Block _____

What is replication?

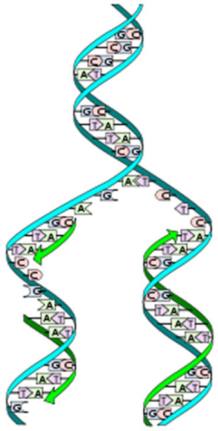
- process by which DNA is _____ before a cell divides
- ensures that each cell will have a _____

http://homepage.smc.edu/hgp/images/dna-rep-small.gif



How does DNA replicate?

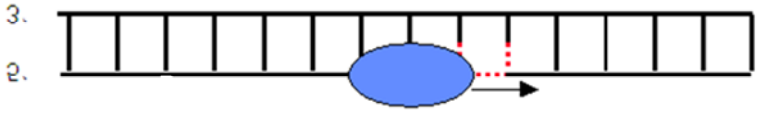
1. The two strands of the double helix are _____.
   - _____ between base pairs are broken
   - the 2 strands of DNA _____
   - each "parental" strand of DNA serves as a _____ for the formation of a "daughter" strand (which is called a _____ of DNA)



2. The appropriate complementary _____ are inserted.
   - __ bonds to T
   - C bonds to ___

3. _____ bonds are produced to extend the growing chain of DNA.

4. The new chains are "_____" by enzymes to ensure that the bases have been inserted correctly.



- **Result of DNA Replication**
- _____ DNA molecules that are _____ to each other and the original ("parental") strand