Name:	Date:	Period:

Molecular Cloning and DNA Technology

1. When the recombinant DNA is transformed into the host the host cell is now considered a	A. ligated	
2. After ligation of the inserted DNA and the plasmid DNA, you now place the into a host bacteria cell.	B. transformation	
3. Enzymes called endonucleases or "digest" or cut DNA at sequence specific sites.	C. selective breeding	
4. After digestion of both the DNA you are inserting and the plasmid DNA, the pieces are then together.	D. genetic engineering	
5. The must be cut so that it is open to accept the bacterial DNA.	E. plasmid	
6. The enzyme is added to a reaction to help bond plasmid DNA and the DNA that is being inserted.	F. genetically modified organism	
7. The practice of selectively mating individuals with desired traits.	G. recombinant DNA	
8. Recombinant plasmid DNA will be taken up into the bacteria cell by a process called	H. transgenic organism	
9 such as antibiotic resistance genes are added to the recombinant plasmid.	I. cloning vector	
10. A way to locate a specific gene in one organism, cut the gene out, then transfer the gene into a different organism.	J. DNA ligase	
11. Genetic structure that will carry the source DNA into the recipient cell	K. artificial selection	
12. Before molecular cloning is complete, the DNA will undergo this type of asexual reproduction.	L. genetic markers	
13. What is a GMO?	M. restriction enzymes	
14. Also known as selective breeding	N. binary fission	