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## Chapter 9 Concept Review

**Directions**: Answer the following questions using your notes and textbook Scientists use several techniques to DNA 2. DNA is a very \_\_\_\_\_ molecule 3. Use \_\_\_\_\_\_, and \_\_\_\_\_\_ as tools to study DNA 4. Led to many biotechnology applications- \_\_\_\_\_ engineering, DNA , cloning, etc.) 5. \_\_\_\_\_ enzymes cut DNA at specific sites 6. Restriction maps show the \_\_\_\_\_ of DNA fragments 7. \_\_\_\_\_ - technique using electric current to separate mixture of DNA fragments from each other 8. A could change a restriction site and result in different fragments. 9. Polymerase chain reaction (PCR)- technique used to make \_\_\_\_\_ of specific DNA sequence. 10. A DNA \_\_\_\_\_ is a type of restriction map 11. Every individual (except identical twins) has a \_\_\_\_\_ set of DNA

12. A DNA fingerprint is a representation of parts of individuals DNA that can be used to identify

13. Gel electrophoresis used to look for different \_\_\_\_\_ and \_\_\_\_ of fragments

14. DNA fingerprinting used in cases (crimes, paternity cases, studying genetic

15. - genetically identical copy of gene or of an organism

16. In mammals- scientists swap between cells

a. Unfertilized \_\_\_\_\_ taken from animal

a person a level

diversity)

b. E	ggs removed		
c. nı	cleus of animal to be cloned in	into egg	
d. A	ter embryo grows for a couple days i	S	
17	became first cloned man	nmal (sheep)	
18. Genetic	c changing	of an organisms DNA to give new trait	
19. Genetic	engineering produces organisms wi	th new	
20	20 organisms- has one or more genes from another organism		
inserted int	o itsgenome.		
21	involves the study of genes, gene functions, and entire genomes.		
22. All stud	ies of genomics begin with gene seq	uencing- determining the order of DNA	
	in genes or genome	es	
23. Human	Project- Comp	oleted mapping and sequencing of human DNA	
in 2003			
24. Genetic	screening- process of testing DNA t	o determine risk of having or passing on a	
	disorder.		
25. Gene _	is the replacen	nent of faulty genes	