ame	Class	Date		
Skills Worksheet				
Directed Reading				
ection: Mutatio	ons and Genetic Ch	ange		
	explain how the terms in ea	ach pair differ in meaning.		
1. mutation, mutagen				
2. point mutation, sile	ent mutation			
	1.0			
3. reading frame, fran	neshift mutation			
				

Complete each statement by underlining the correct term in the brackets.

- 4. If a mutation causes a sequence of nucleotides to change from ACGAGA to ACGAGGA, the mutation is called a(n) [insertion / deletion] mutation.
- 5. Mutations that change one or just a few nucleotides in a gene on a chromosome are called [random / point] mutations.
- 6. If a point mutation is such that it causes a codon to specify a different amino acid, the mutation is called a [missense / silent] mutation.
- 7. If a mutation causes a sequence of nucleotides to change from ACGAGA to ACGGA, the mutation is called a(n) [insertion / deletion] mutation.
- 8. A chromosomal mutation that leads to repetitive alleles is called a(n) [inversion / duplication].

Name	Class	Date
Directed Reading continued	4	
Director Reading continues	<u> </u>	
Complete each statement by	writing the correct te	erm in the space provided.
9. Mutations can only be pa	ssed on to offspring i	if they occur in cells called
	cells.	
10. Mutations that cause a ce	ll to divide uncontrol	llably can lead to growth of a
	·	
11. When chromosome pairs	fail to separate prope	erly during meiosis, the error is
called	·	
12. The condition of having t	two or more sets of cl	hromosomes is called