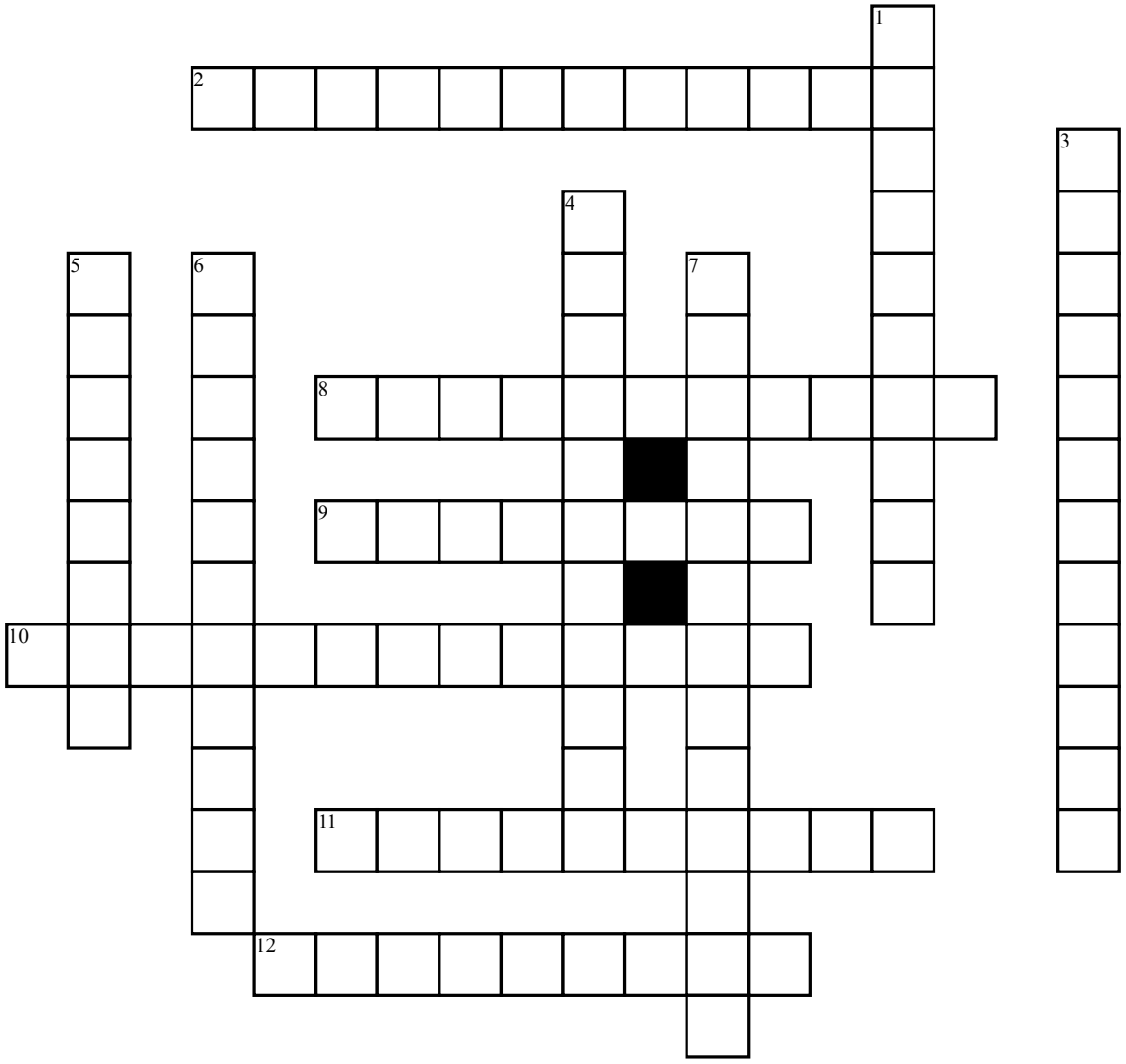
Name: _____ Date: _____

Mutations



Across

2. A type of mutation where the properties of an amino acid remain the same

8. Mutation involving the production of one or more copies of any piece of DNA, including a gene or even an entire chromosome

9. A type of mutation which changes the codon causing the amino acid to change

10. A mutation that only affects a single nucleotide of nucleic acid

11. premature termination of protein elongation due to the presence of a termination codon in its structural gene as a result of a nonsense mutation

12. A chromosome rearrangement in which a segment of a chromosome is reversed end to end

Down

1. A type of translocation in which two fragments break off from two different chromosomes and swap places

3. A type of translocation which occurs when one chromosome is attached to another

4. A type of inversion which Includes the centromere and there is a break point in each arm

5. A type of mutation that will change the number of bases present which will cause a shift in all the base triplets after it

6. A type of inversion which doesn't include the centromere and both breaks occur in one arm of the chromosome

7. A chromosome abnormality caused by rearrangement of parr's between nonhomologous chromosomes