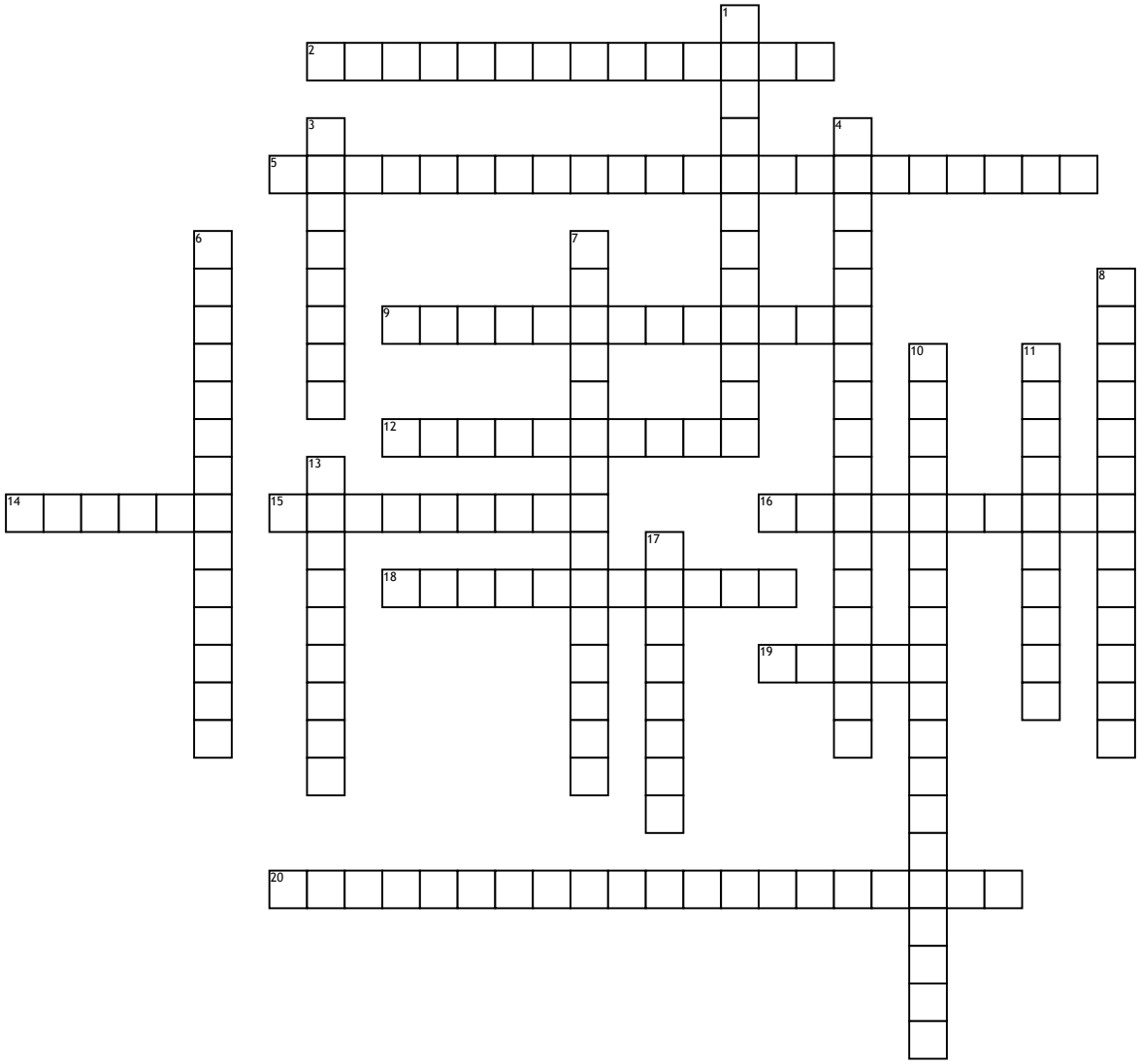
Name: _____ Date: _____

Patterns of Inheritance



Across

2. In a heterozygote, the allele that determines the phenotype with respect to a particular gene.
5. A common sex-linked human disorder involving several genes on the X chromosome and characterized by a malfunction of light-sensitive cells in the eyes; affects mostly males but also homozygous females.
9. A gene located on a sex chromosome.
12. Having two identical alleles for a given gene.
14. The offspring of parents of two different species or of two different varieties of one species.
15. A heritable feature that varies among individuals within a population, such as flower color in pea plants.
16. Expressing two different alleles of a gene in a heterozygote.
18. Genes located close enough together on a chromosome that they are usually inherited together.
19. A variant of a character found within a population such as purple flowers in pea plants.
20. The additive effect of two or more genes on a single phenotypic characteristic.

Down

1. Having two different alleles for a given gene.
3. The genetic makeup of an organism.
4. A genetic disorder in which the red blood cells have abnormal hemoglobin molecules and take on an abnormal shape.
6. Genetically determined classes of human blood that are based on the presence or absence of carbohydrates A and B on the surface of red blood cells.
7. A mating of individuals differing at one genetic locus.
8. A diagram used in the study of inheritance to show the results of random fertilization.
10. A type if inheritance in which the phenotype of a heterozygote is intermediate between the phenotypes of the two types of homozygotes.
11. A map of a chromosome showing the relative positions of genes.
13. The expressed traits of an organism.
17. The scientific study or heredity.