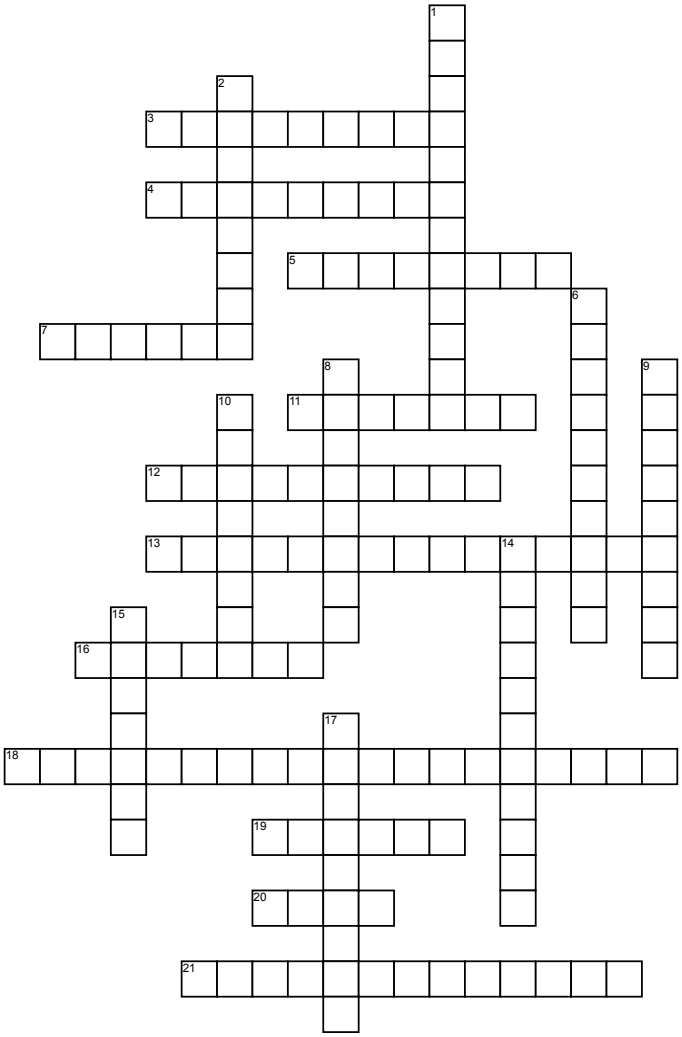
Name: _____ Date: _____

Genetics and Heredity



Across

3. Observable characteristics
4. How many homologous pairs of chromosomes do humans have?
5. Number of chromosomes a human cell contains
7. Another term for testes and ovaries
11. Cell division that produces gametes
12. Pair of chromosomes that are of the same size, shape, and have the same genes
13. Mating between two individuals with different variations of one gene of interest
16. Another term for sperm and egg
18. Type of inheritance that occurs when alleles blend to form a phenotype that is somewhere between the dominant and recessive form
19. Alternate form of a gene
20. Functional segment of DNA that produces different characteristics
21. Diagram used to predict genetic outcome of a particular crossing or mating

Down

1. Both copies of allele are different
2. Study of heredity or inheritance
6. Both copies of allele are the same
8. Genetic component that contributes to phenotype
9. Allele that is hidden or not expressed in a heterozygous individual
10. Allele that is expressed and observed
14. Type of inheritance where both alleles are equally expressed
15. Are cells haploid or diploid by the end of meiosis I?
17. Type of trait for any trait that is coded for by genes located on the X chromosome

Word Bank

Homologous
Genotype
twenty two
forty six
Gene
Sex linked
Gonads
Codominance
Meiosis
Dominant
Recessive
Punnett Square
Monohybrid cross
Gametes
Haploid
Phenotype
Genetics
Allele
Heterozygous
Incomplete dominance
Homozygous