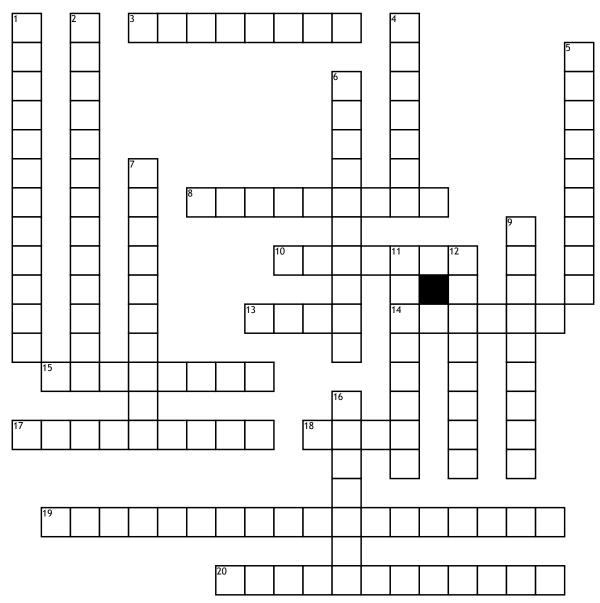
Name:	Date:
-------	-------

Chapter 4



Across

- **3.** A diagram that shows traits or diseases passed through generations
- **8.** A type of trait (can be recessive or dominant) that has nothing to do with gender or x and y chromosomes
- **10.** The individual that the pedigree is concerning
- **13.** The basic physical and functional unit of all heredity
- **14.** Pedigree- circle
- **15.** An individual's collection of genes (Rr, ss, LL)
- **17.** A trait that will only be appearant in the offspring if both parent contribute it
- 18. Pedigree- square

19. Genetic disorders resulting from mutations in _____

are maternally inherited

20. Having one of each allele

Down

- 1. it is best to be ______ because then you won't have two recessive alleles and have sickle cell, but you also won't have two dominant alleles and be more likely to have malaria
- **2.** A grid showing the genotype of two parents and the possible genotypes of their offsprings
- **4.** There is less sickle cell in the US because we do not have misquitos that transmit ______.

- 5. An individual's observable traits
- **6.** Thread-like structures that are made up of protein and a single molecule of DNA
- 7. Having two of the same alleles
- **9.** A trait associated with a gene that is carried by a make or female parent (passed down by x and y chromosomes)
- **11.** Pedigree- shaded in (the individual is _____)
- **12.** A trait that will appear in the offspring if at least one parent contributes it
- **16.** Pedigree- half shaded in (the individual is a(n) _____)