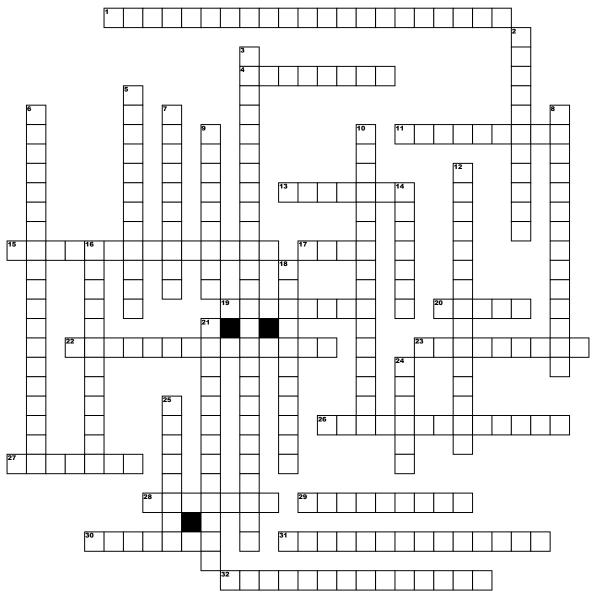
Name:	Date:	Period:

## Genetics



## Across

- 1. chromosome pairs (one from each parent) that are similar in length, gene position, and centromere location.
- 4. any chromosome that is not a sex chromosome.
- 11. relating to or denoting heritable characteristics controlled by genes that are expressed in offspring only when inherited from both parents, i.e., when not masket by a dominant characteristic inherited from one parent.
- 13. having a single set of unpaired chromosomes
- **15.** a chromosome that differs from an ordinary autosome in form, size, and behavior.
- 17. a unit of heredity that is transferred from a parent to offspring and is held to determine some characteristic of
- 19. the set of genes in our DNA which is responsible for a particular trait
- 20. a feature of an organism
- 22. when there is wide variation in the trait.
- 23. The recorded ancestry, especially upper class ancestry, of a person or family
- genotypes of an offspring arising from a particular cross or breeding event
- 27. the process by which one diploid eukaryotic cell divides to generate four haploid cells often called
- 28. a person or other organism that has inherited a recessive allele for a genetic trait or mutation but usually does not display that trait or show symptoms of the disease

- 29. The physical appearance or biochemical characteristic of an organism as a result of the interaction of its genotype and the environment
- **30.** the cells used during sexual reproduction to produce a new individual organism or zygote
- 31. The tendency of DNA sequences that are close together on a chromosome
- 32. the tendency of DNA sequences that are close together on a chromosome to be inherited together during the meiosis phase of sexual reproduction
- Down
- 2. a form of dominance wherein the alleles of a gene pair in a heterozygote are fully expressed
- 3. the alleles of two (or more) different genes get sorted into gametes independently of one another
- 5. the exchange of genetic material between non-sister chromatids of homologous chromosomes during meiosis
- 6. a form of intermediate inheritance in which one allele for a specific trait is not completely expressed over its paired allele. This results in a third phenotype in which the expressed physical trait is a combination of the phenotypes of both alleles
- 7. a particular gene that has identical alleles on both homologous chromosomes. It is referred to by two
- 8. maternally inherited from carrier mothers or from an affected father.
- a genetic cross between a homozygous recessive individual and a corresponding suspected heterozygote to determine the genotype of the latter.

- 10. he principles that govern heredity were discovered by a monk named Gregor Mendel in the 1860's. One of these principles
- 12. a breeding experiment between P generation (parental generation) organisms that differ in a single given trait
- 14. Having two sets of chromosomes or double the haploid number of chromosomes in the germ cell
- 16. if they are different from one another, they are 18. used to measure the chances or likelihood of an event to occur,
- 21. a breeding experiment between P generation (parental generation) organisms that differ in two traits
- 24. one of the possible forms of a gene
- 25. An allele or a gene that is expressed in an organism's phenotype, masking the effect of the recessive allele or gene when presen