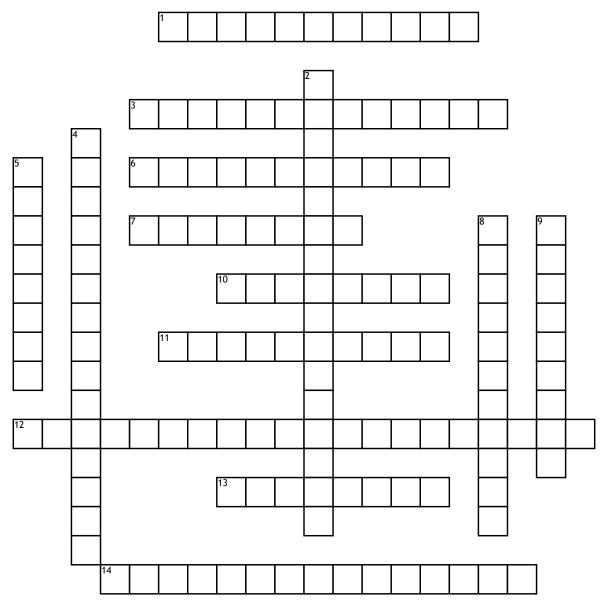
Name:	Date:	Period:	

Gene Regulation Crossword Puzzle



Across

- 1. Formation of an acetyl derivative/introducing an acetyl group into a compound
- **3.** An increase in the frequency of a gene or chromosomal region, as a result of replicating a DNA segment
- **6.** A chromosomal segment that can undergo transposition and can be translocated into a different area
- **7.** A heritable change in the nucleotide sequence in a gene or a chromosome usually random
- **10.** Gene elimination from differentiating cells
- **11.** A protein that increases gene transcription of a gene or set of genes

- **12.** A protein that controls the rate of transcription of genetic information from DNA to messenger RNA, by binding to a specific DNA sequence
- **13.** A group of synthetic hormones that mimic natural ones usually to enhance bodily processes
- **14.** The amount of time it takes for something to decompose/time it take for the molecules to split off resulting in the degradation of the object

Down

2. A molecule consisting of two subunits that fit together and work as one to build proteins based off the mRNA sequence

- **4.** The addition of a phosphate group to a protein or other organic molecule
- **5.** The process by which introns are removed to produce mature mRNA that contains only exons
- **8.** The process by which methyl groups are added to the DNA molecule which can silence genes or a group of genes
- **9.** Genetic elements important in the function of a specific promoter and increases the likelihood that transcription of a particular gene will occur