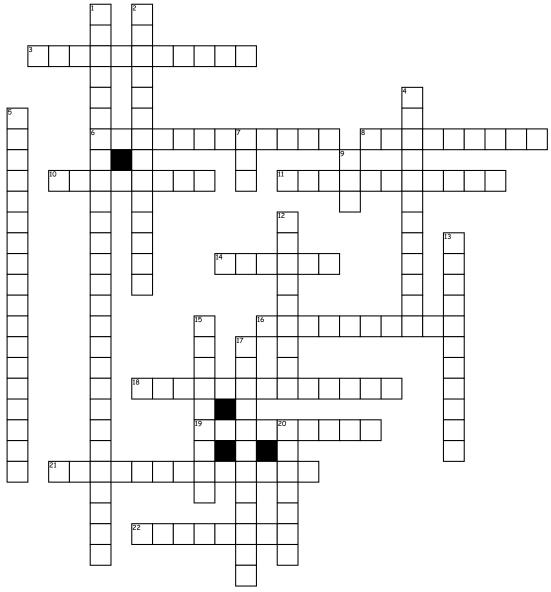
Name:	Date:	Period:

human anatomy



Across

- 3. The process by which the genetic code carried by messenger RNA (mRNA) directs the production of proteins from amino acids.
- **6.** molecular biology describes the two-step process, transcription and translation
- 8. an insertion is the addition of one or more nucleotide base pairs into a DNA sequence
- ${\bf 10}.$ an enzyme that unwinds the DNA double helix by breaking the hydrogen bonds between the complementary bases.
- 11. an adaptor molecule composed of RNA, typically 76 to 90 nucleotides in length, that serves as the physical link between the mRNA and the amino acid sequence of proteins
- 14. the basis of chromosome
- 16. an enzyme which brings about the formation of a particular polymer, especially DNA or RNA
- 18. the rearrangement of genetic material, especially by crossing over in chromosomes or by the artificial joining of segments of DNA from different organisms.

- 19. a triplet of nucleotide bases in transfer RNA that identifies the amino acid carried and binds to a complementary codon in messenger RNA during protein synthesis at a ribosome.
- 21. he process of making an RNA copy of a gene sequence.
- 22. in which a part of a chromosome or a sequence of DNA is lost during DNA replication

Down

- organism whose genome has been engineered in the laboratory in order to favour the expression
- 2. Polygenic traits are traits that are controlled by multiple genes instead of just one.
- 4. binds to a cell-surface receptor and initiates intracellular activity compare second messenger.
- 5. a genetic mutation caused by indels of a number of nucleotides in a DNA sequence that is not divisible by three
- 7. deoxyribonucleic acid, a self-replicating material which is present in nearly all living organisms as the main constituent of chromosomes
- 9. Ribonucleic acid

- 12. a nucleotide triplet within messenger RNA that signals a termination of translation into proteins
- 13. a complex organic substance present in living cells, especially DNA or RNA, whose molecules consist of many nucleotides linked in a long chain.
- 15. It is made up of DNA attached to a protein structure, together with chromosomal RNA
- 17. mutation is a type of replication error during DNA replication which places the wrong nucleotide or sequence of nucleotides in the wrong position.
- 20. Literally a fragment, the word in modern medical science has come to mean a replica, for example, of a group of bacteria or a macromolecule such as DNA