Replication, Transcription, Translation, and Mutations

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| **Across****2.** Type of mutation that changes the entire sequence of DNA following the mistake (2 words)**5.** tRNA and mRNA are involved in \_\_\_\_\_ (2 words)**8.** A mutation can change the \_\_\_\_\_ and be replicated when forming new cells (2 words)**10.** DNA replication is \_\_\_\_\_**12.** After transcription, mRNA leaves the nucleus and attaches itself to a \_\_\_\_\_**13.** \_\_\_\_\_ carries amino acids to the site of protein synthesis**14.** The bases are often abbreviated to \_, \_, \_ and \_**15.** \_\_\_\_\_ joins the Okazaki fragments**18.** Unwound DNA**19.** A mutation can be \_\_\_\_\_, beneficial, or harmful**22.** DNA polymerase replicates one strand \_\_\_\_\_ and one not**24.** A mutagen is a(n) \_\_\_\_\_, such as radiation, chemicals, high temperatures, or UV light**27.** A purine —> purine or pyrimidine —> pyrimidine mutation**28.** A(n) \_\_\_\_\_ is a sequence of three bases in a tRNA molecule**29.** Passed on from parents to offspring**32.** \_\_\_\_\_ connect the bases (2 words)**33.** Part of a chromosome, passed on from parents to offspring**34.** \_\_\_\_\_ adds nucleotides and checks to make sure the new copy is correct (2 words)**36.** Ribosomes are located on the \_\_\_\_\_ (2 words)**38.** Because it only makes 5'-3', DNA polymerase makes little sections for the other side called \_\_\_\_\_ (2 words)**39.** One base is placed incorrectly**40.** One base is added**41.** \_\_\_\_\_ creates a primer on the DNA strand by adding RNA nucleotides**42.** DNA is shaped like a twisted ladder, or \_\_\_\_\_ (2 words)**43.** Mutations can be \_\_\_\_\_ | **Down****1.** In DNA, adenine pairs with \_\_\_\_\_**3.** One base is deleted**4.** A purine —> pyrimidine or pyrimidine —> purine mutation**6.** The message from the mRNA will be translated into an \_\_\_\_\_ sequence (2 words)**7.** A(n) \_\_\_\_\_ is a sequence of three bases that codes for an amino acid**9.** The sides of DNA are made of \_\_\_\_\_ and phosphate.**11.** Transcription happens in the \_\_\_\_\_**16.** DNA replication does not happen when the cell \_\_\_\_\_**17.** DNA is \_\_\_\_\_**20.** A change that takes place in DNA**21.** A and G are both \_\_\_\_\_**23.** RNA has \_\_\_\_\_ instead of thymine**25.** Translation occurs in the \_\_\_\_\_, specifically on the ribosomes**26.** \_\_\_\_\_ contain nitrogen (2 words)**30.** Transcription is the process of making \_\_\_\_\_**31.** T and C are \_\_\_\_\_**35.** \_\_\_\_\_ are made in the ribosomes**37.** Helicase \_\_\_\_\_ DNA |