## **Transcription/Translation SL**

1. Transcription is the process of creating a molecule of \_\_\_\_\_\_ from DNA. It is carried out by \_\_\_\_ \_\_\_\_\_ enzyme which copies the relevant \_\_\_\_\_\_ by adding free \_\_\_\_\_\_ pairing takes place as normal with the exception of \_\_\_\_\_\_ replacing \_\_\_\_\_\_. 2. An \_\_\_\_\_ molecule consists of \_\_\_\_\_ of bases called \_\_\_\_\_. These have the same meaning in \_\_\_\_\_\_ all organisms. 3. A strand of DNA could read as below. Transcribe the correct strand in the space between them. - A T G C A C A G G A T A C T A - Sense strand - TACGTGTCCTATGAT-Anti-sense strand 4. The diagram below represents a simplified molecule of \_\_\_\_\_\_. Fill in the labels. 5. In translation, \_\_\_\_\_\_ first binds to the small subunit of the \_\_\_\_\_\_. Once the \_\_\_\_\_\_ codon is in the correct location, a \_\_\_\_\_\_ molecule, carrying an \_\_\_\_\_\_ \_\_\_\_\_ binds to the \_\_\_\_\_\_. Then the \_\_\_\_\_\_ subunit of the \_\_\_\_\_\_ binds. This allows the next \_\_\_\_\_\_ molecule to bind, and the formation of a \_\_\_\_\_\_ bond between \_\_\_\_\_ is facilitated. The \_\_\_\_\_\_ moves along the \_\_\_\_\_ molecule, repeating this pattern by continually adding another \_\_\_\_\_ until the has been formed. Draw a quick schematic of this process on the back of this page for practice.