**Steps of Transcription**

TRANSCRIPTION

1. ** DNA unwinds and unzips**
2. **RNA polymerase binds**
3. **mRNA bases (AUGC) match up with the correct DNA bases**
4. **mRNA breaks off into codons**
5. **mRNA EXONS exit the nucleus**
6. **DNA winds back up and remains in the nucleus**

**Steps of Translation**

1. **mRNA Exons bind to the ribosome**
2. **tRNA binds to the mRNA using its anti-codon (proofreader)**
3. **tRNA drops the correct amino acid**
4. **A peptide bond forms between the amino acids to create a polypeptide**
5. **Once a stop codon is reached, the protein is released**