Protein Synthesis

- **_____ → _____ → _____**
- **The process is called _____!**
- **_____ protein!!!**

"_____ → _____"

_____
(Step 1)

- **When a section of DNA is copied to RNA**
- **RNA _____**
- **Happens in the _____**

- **"_____ → (amino acids)_____"**

_____
(Step 2)

- **The transfer of the instructions in RNA to a protein made of amino acids.**
- **Happens in the _____ and interacts with a ribosome.**

Making the Protein (Step 3)

- **There are ___ different amino acids**
- **It takes___ letters (A,U,G,C) to code for each _____ _____**
- **mRNA is divided into three-base segments called codons.**
- **A _____ is the segment of nucleotides that codes for an amino acid**
  - or for a start or stop signal
  - There are 64 codons.
  - Amino acids make _____

The genetic code

- **_____ codes for the amino acid _____.**
- **"The _____ codon" which begins every translation of every amino acid chain.**
- **There are three _____ codons: UAG, UGA, UAA.**

Start and stop codons

What does UAG code for? _____
What does GUA code for? _____

***** Watch the video labelled "DNA Transcription" as a class.**
*****Now get a chrome book and go to the website labelled "practice"**
(do the simulation a few times)

Write the chain of amino acids in your proteins here.

_____