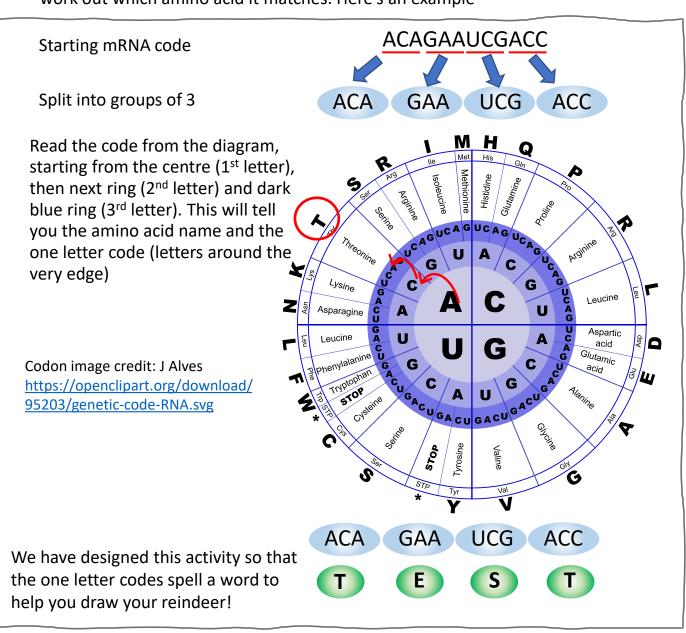


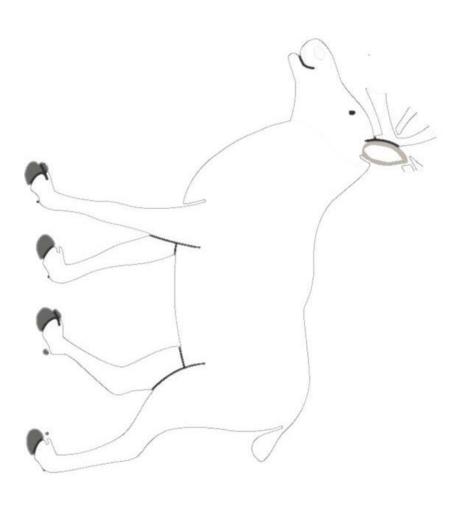
Can you draw a reindeer based on the genetic code provided?

Genes are the instruction manual in our cells. They provide the code for individual characteristics, like eye colour. They are copied into messenger RNA which is then translated into protein. Proteins then carry out all the important jobs in your cells.

To translate mRNA into protein, you must read the code 3 letters at a time, then work out which amino acid it matches. Here's an example



Choose a reindeer to 'decode' on the next page and draw them according to the mRNA instructions. You can draw your own, or use the reindeer template provided.



Reindeer name	Eye colour	Nose colour	Antler length	Coat colour
CCCCGAGCGAAUUGUGAGAGA GGGCGUGAAGAGAAU	GGGCGUGAAGAGAAU	UUUGCAUGGAAC ACGGCCCUUCUC	ACGGCCCUUCUC	CUGAUCGGGCACACC
GACGCAUCUCACGAACGU	UGUGCGCGAGCUAUGGAACUC AGAGAGGAU	AGAGAGGAU	UCCAUGGCCCUACUG GACGCGCGUAAA	GACGCGCGUAAA
GACGCCAACUGUGAGCGC	ACUGCGAAU	GAUGCCAGAAAA	ACCGCUCUACUA	CUAAUUGGCCACACG

Image modified from oksmith https://openclipart.org/detail/318473/reindeer-3