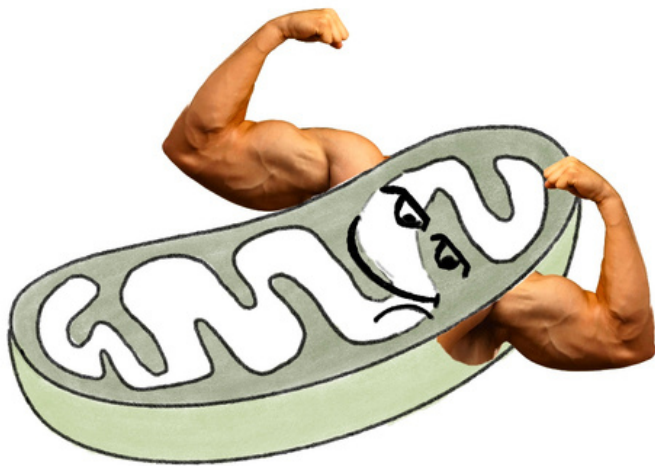


AP BIOLOGY

PROTEIN

STRUCTURE



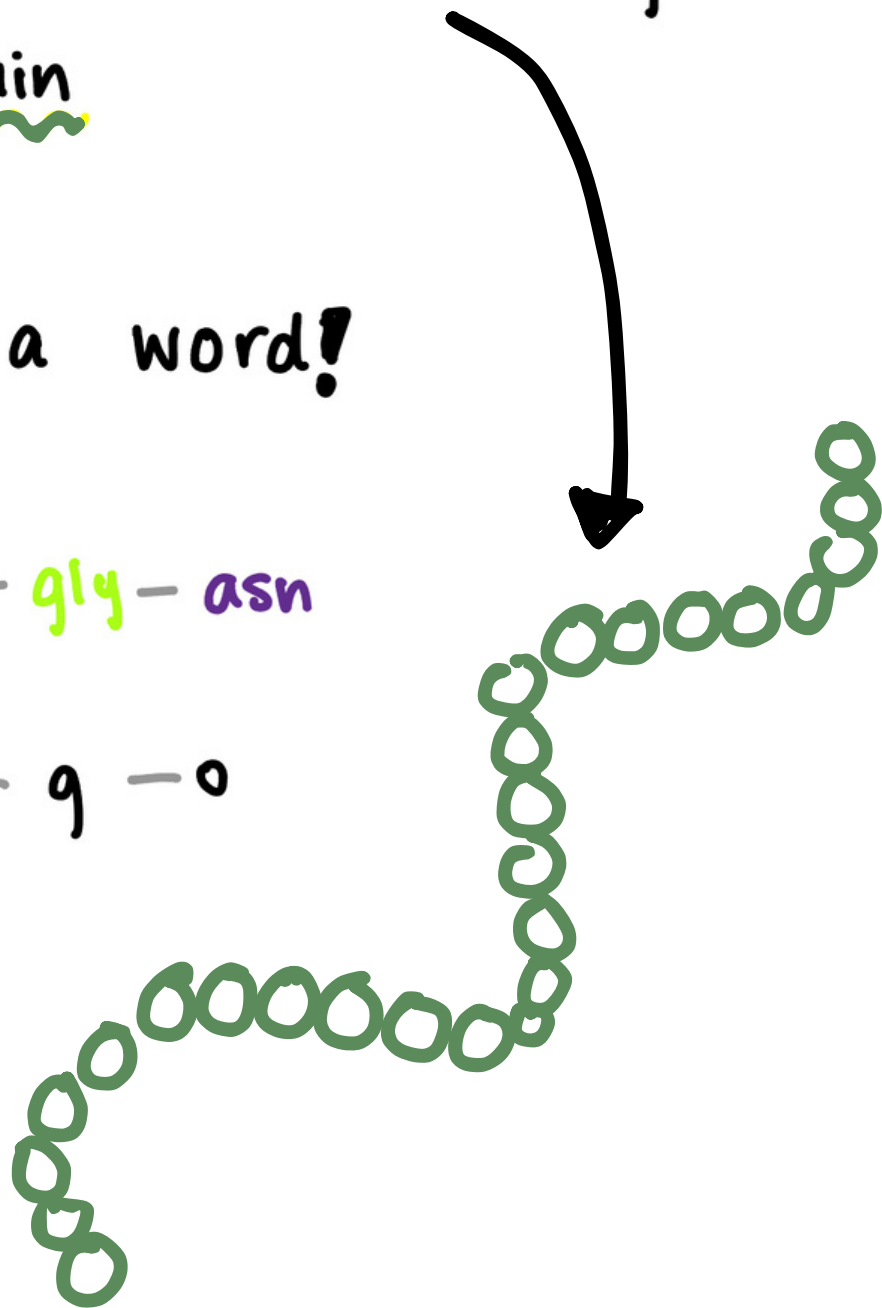
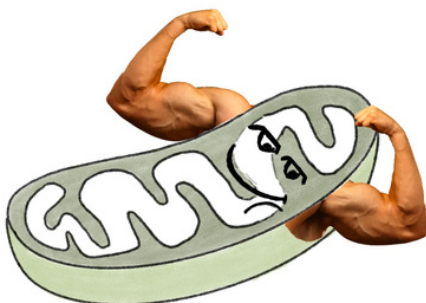
1. Primary structure

- Sequence of amino acids linked together in a polypeptide chain

→ letters in a word!

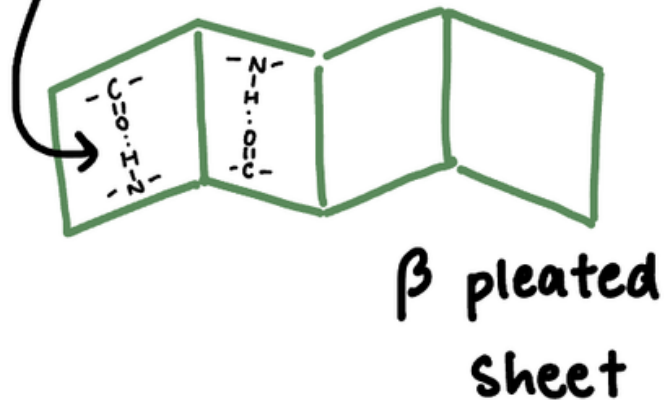
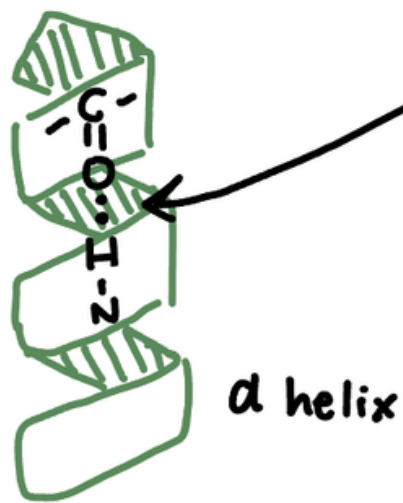
gln — glu — phe — gly — asn

m — a — n — q — o

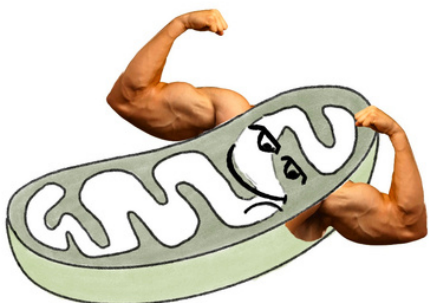


2. Secondary Structure

- polypeptide chains coil or fold into α helix or β pleated sheet through hydrogen bonding between N-H & Carbonyl group.

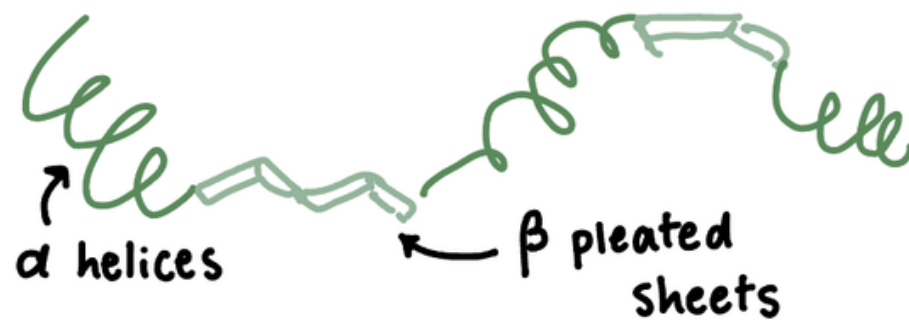


→ think of them as words! $m \cdot a \cdot n \cdot q \cdot o$

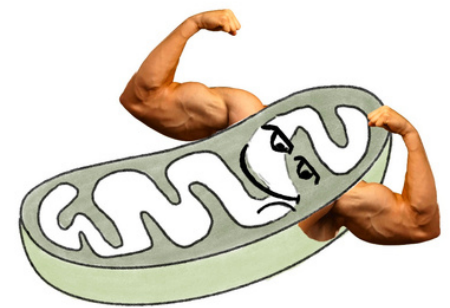


3. Tertiary structure

- 3D folding pattern defining overall shape of protein
- structures held by disulfide bridges & ionic bonds

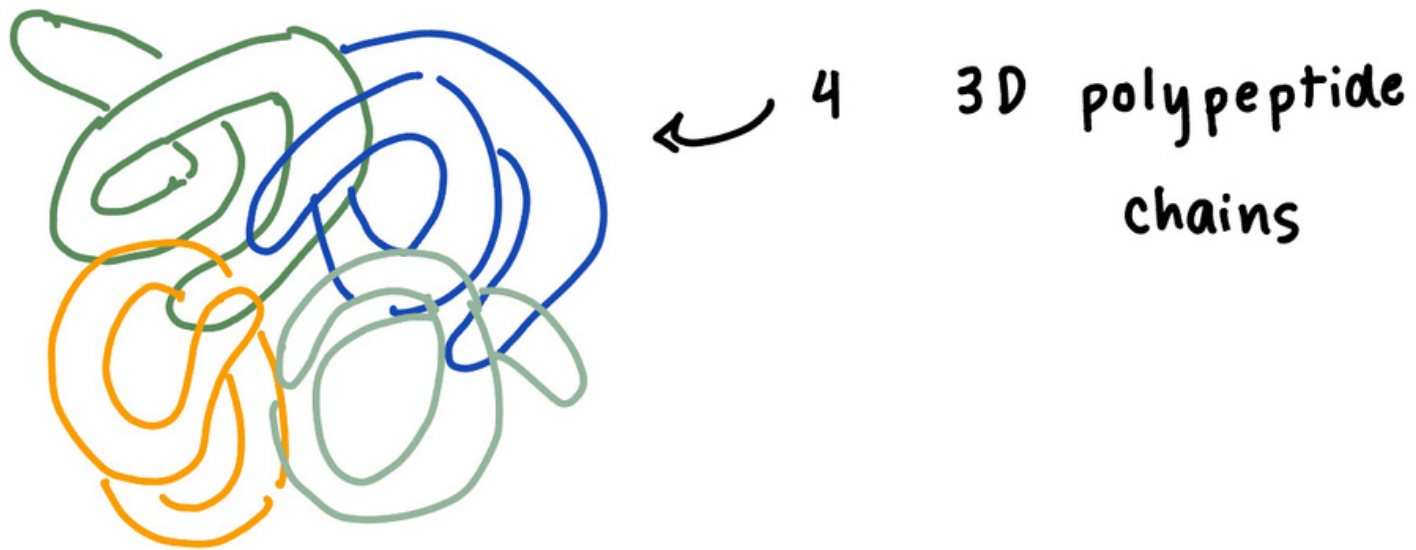


→ think of them as sentences !
mangos are amazing



4. Quaternary structure

- proteins consisting of more than 1 3D polypeptide chain



→ think of them as paragraphs!

mangos are amazing because they are
delicious . . .



**follow for
more !**

