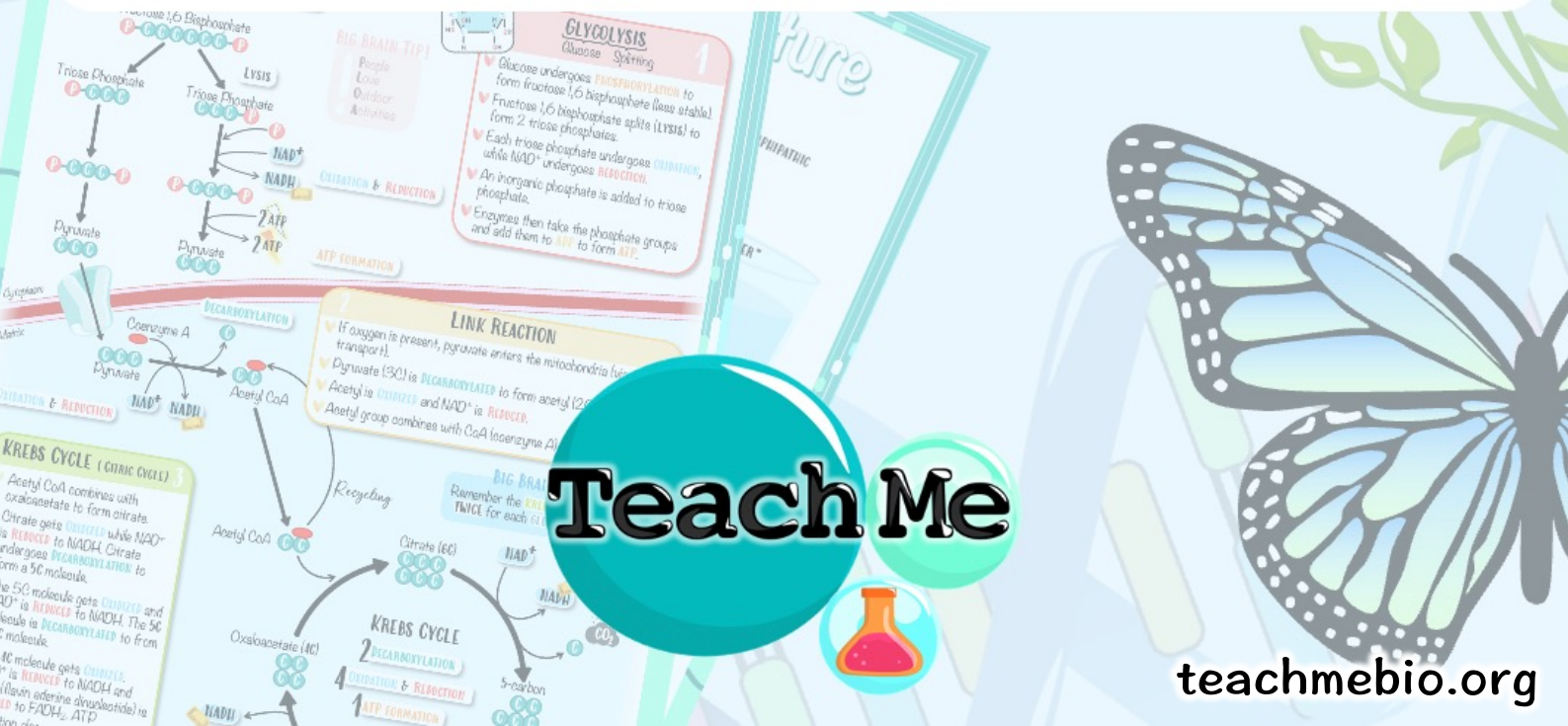


TeachMe

STUDY

NOTES

B1.2 PROTEINS



Proteins

The 4 macromolecules

- CARBOHYDRATES
- LIPIDS
- NUCLEIC ACIDS
- PROTEINS

EXAMPLES OF PROTEINS

1 HAEMOGLOBIN



Oxygen carrying protein found in red blood cells.

2 INSULIN



A hormone produced by the body (pancreas) to lower your blood glucose level.

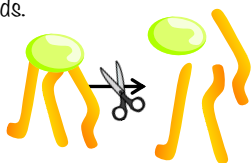
3 KERATIN



Component of hair, nails, claws and hooves.

4 LIPASE (ENZYME)

A digestive enzyme that helps hydrolyse (break down) ingested lipids.



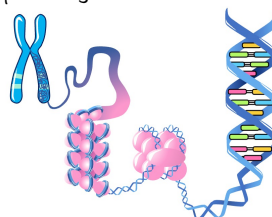
5 COLLAGEN



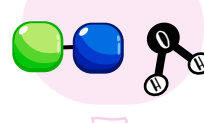
A structural protein found in muscle, tendons, ligaments, and the skin of vertebrate.

6 HISTONES

Found in the nucleus and help with supercoiling DNA into chromosomes.



2AA + WATER

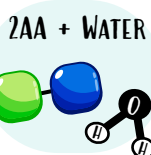
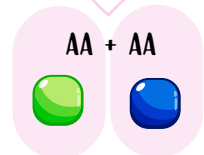


"Water Splitting"
Hydrolysis

AA + AA



Condensation



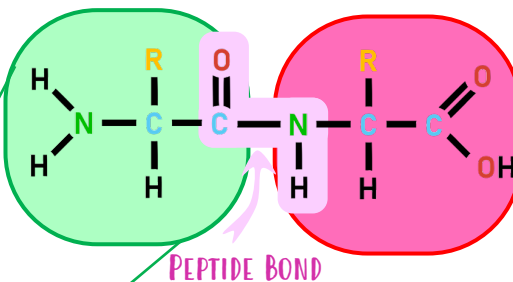
NOTE!

Make sure you know **HOW** to draw the structure of an amino acid and the condensation reaction to form a dipeptide

FACT!

There are
20
different types of amino acids

DIPEPTIDE Amino Acid dimer



AMINO ACID STRUCTURE

The basic unit (monomer) of a protein

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