12.2 Notes: The Structure of DNA

The STRUCTURE of a thing determines its FUNCTION!

Hammer Structure:

Flat end with mass behind it; scissor like end with space smaller than nail head

Hammer Function:

Hammers nails; pull nails

DNA Structure





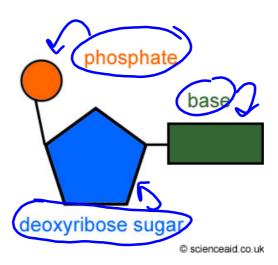
DNA Function

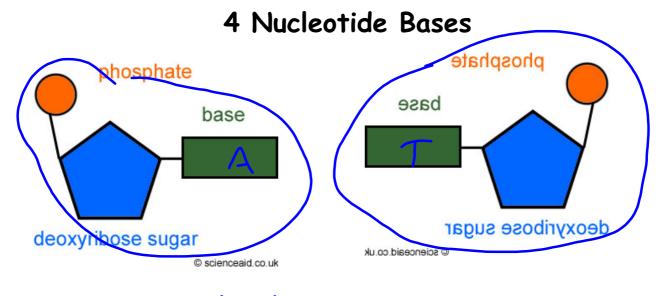
- 1) storing information
- 2) copying information
- 3) transmitting information

DNA Structure

• Made of a substance called <u>nucleic acids</u>.

- Nucleic acids are of repeating subunits called nucleofides.
- 1 nucleotide =





Adenine =
$$A \leftarrow Thymine = T$$

Guanine =
$$G \longleftrightarrow Cytosine = C$$



Different sequences of bases code for different genes!



Different sequences of bases code for different variations of genes!

Example: Sickle Cell Anemia

