

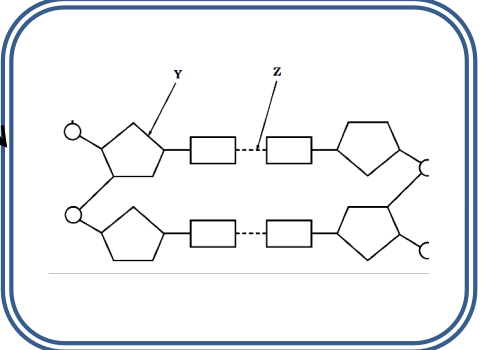
Draw lines to match the **enzyme** to its function in DNA replication.

Enzyme	Function in DNA replication
DNA polymerase	joins fragments of DNA together on the lagging strand
Ligase	bonds nucleotides into the backbone of a new DNA strand

Draw a **labelled diagram** of one.

Name of the **repeating units** that make up a molecule of DNA.

Label the **3' and 5'** end of each strand. Name bonds Y and Z.



Unit 1 KA2: Structure and Replication of DNA

The **small section of DNA** needed by DNA polymerase to **start replication** is called?

At what end (**3' or 5'**) does DNA polymerase add new nucleotides?

Explain why the **"lagging" strand** has to be copied in fragments.

Name **4 substances** that are required for **DNA replication** to take place.

- 1.
- 2.
- 3.
- 4.

Shape of DNA is described as a

Describe the **base pairing rule** for DNA.

Explain why the strands of DNA are described as **anti-parallel**.