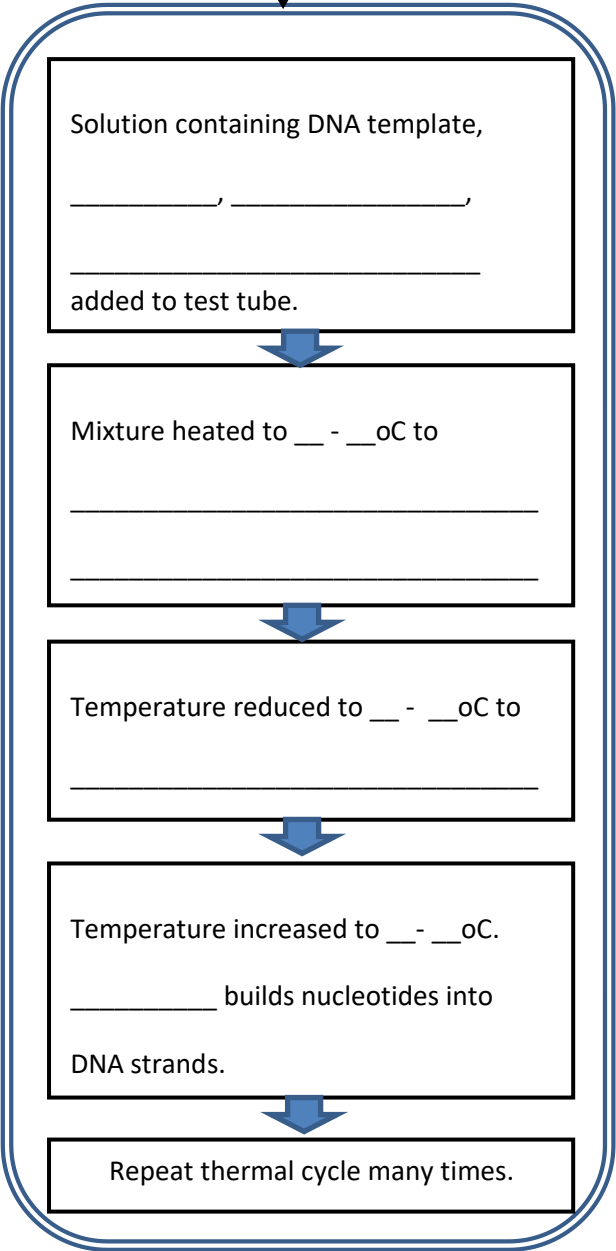


Complete the flow chart to show the steps involved in PCR.



When does DNA replication occur?

## Replication of DNA

Draw lines to match the enzyme to its function(s) during DNA replication.

Enzyme	Function in DNA replication
DNA polymerase	causes DNA to unwind
Ligase	joins fragments on lagging strand
	Adds free nucleotides to 3' end

What is the function of a primer?

At what end of DNA are nucleotides added?

Why are two different primers needed for PCR?

List 3 uses of DNA amplified through PCR.

- 1.
- 2.
- 3.

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

What type of bonds form between adjacent nucleotide bases?

Name 5 substances that are required, in order for DNA replication to take place.

- 1.
- 2.
- 3.
- 4.
- 5.