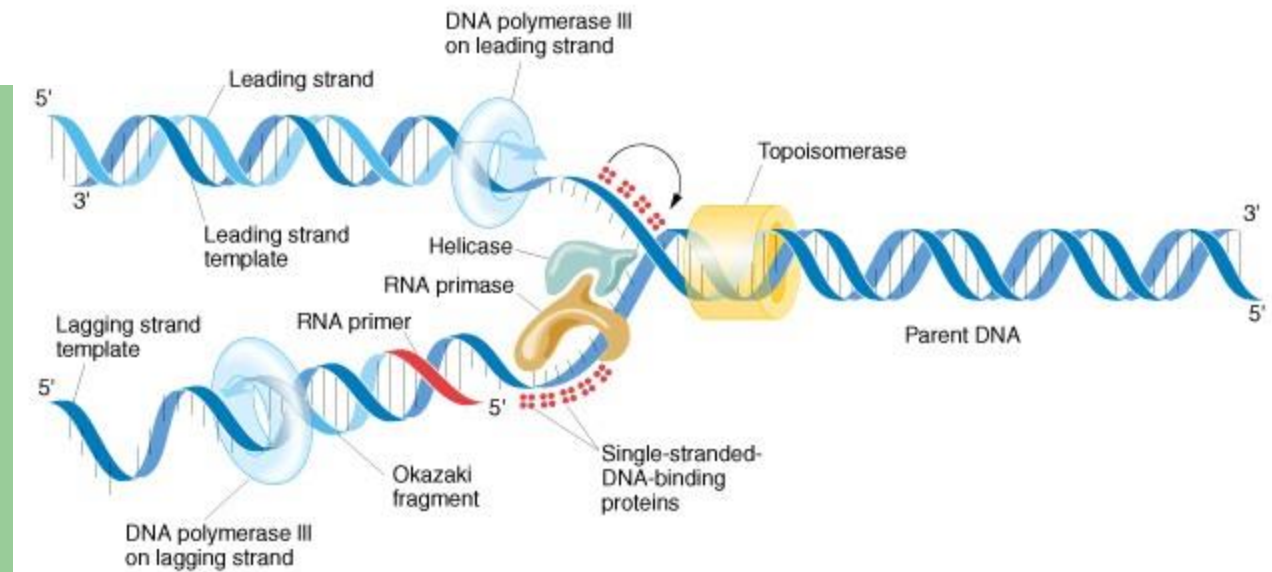


Replication



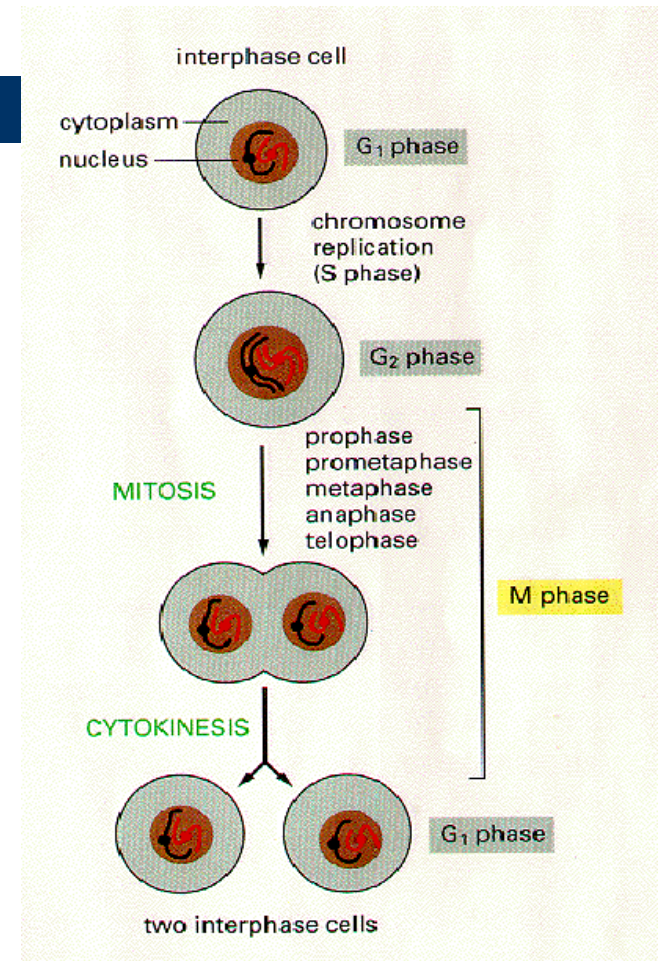
Duplicating DNA ...

Objectives

- Students will be able to describe the process of DNA replication
- Students will understand the purpose of DNA replication
- Students will be able to visualize the process of DNA replication

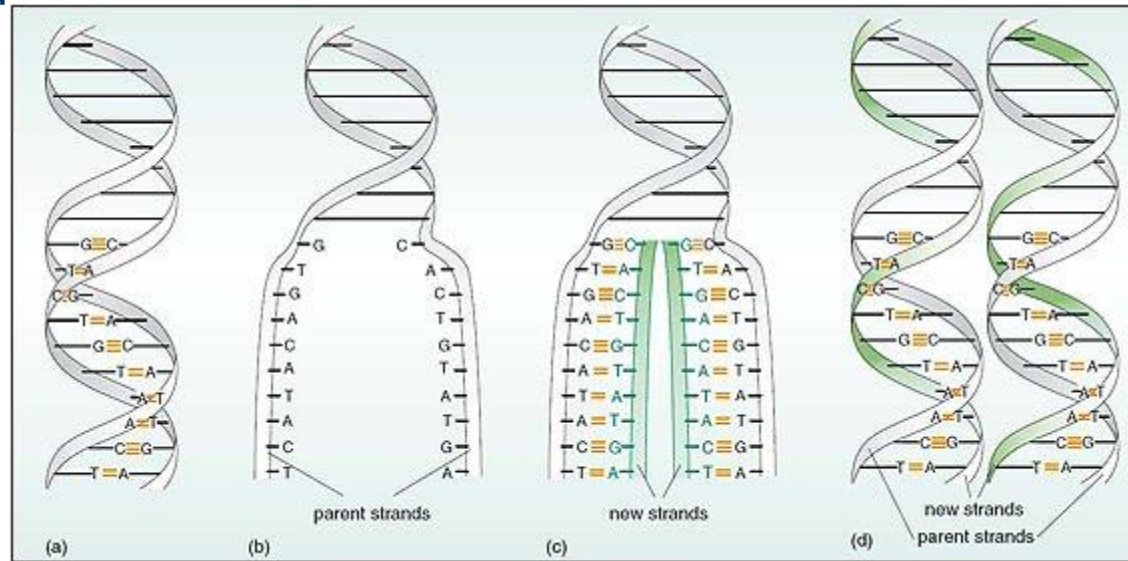
Why replicate DNA?

- For cell division
- Each daughter cell needs DNA
- Each cell gets its own double-helix – identical to original cell



How does it happen?

- DNA “unzips” exposing each strand
- DNA Polymerase (enzyme) does the work
- Complementary bases added to each strand
- New strands wrap into double helix
- Each copy of double helix has one old strand & one new strand



What does it look like?

<http://www.wehi.edu.au/wehi-tv/molecular-visualisations-dna>