

DNA Replication Worksheet

The Big Idea!

The structure of DNA, the molecule of heredity, enables the molecule to copy itself.

Concepts

- DNA is composed of nucleotides and is shaped like a double helix, with strands running antiparallel
- Bases always form complementary base pairs (adenine with thymine and cytosine with guanine)
- Complementary base pairing enables DNA to replicate, or copy itself
- DNA replication involves three steps and each step uses a specific enzyme
- There is a leading strand and a lagging strand for each replication fork
- The lagging strand is made from Okazaki fragments

ation — your answer should include a discussion of Okazaki pieces and RNA primer.

Explain elongation stage of replication of leading strand, lagging strand