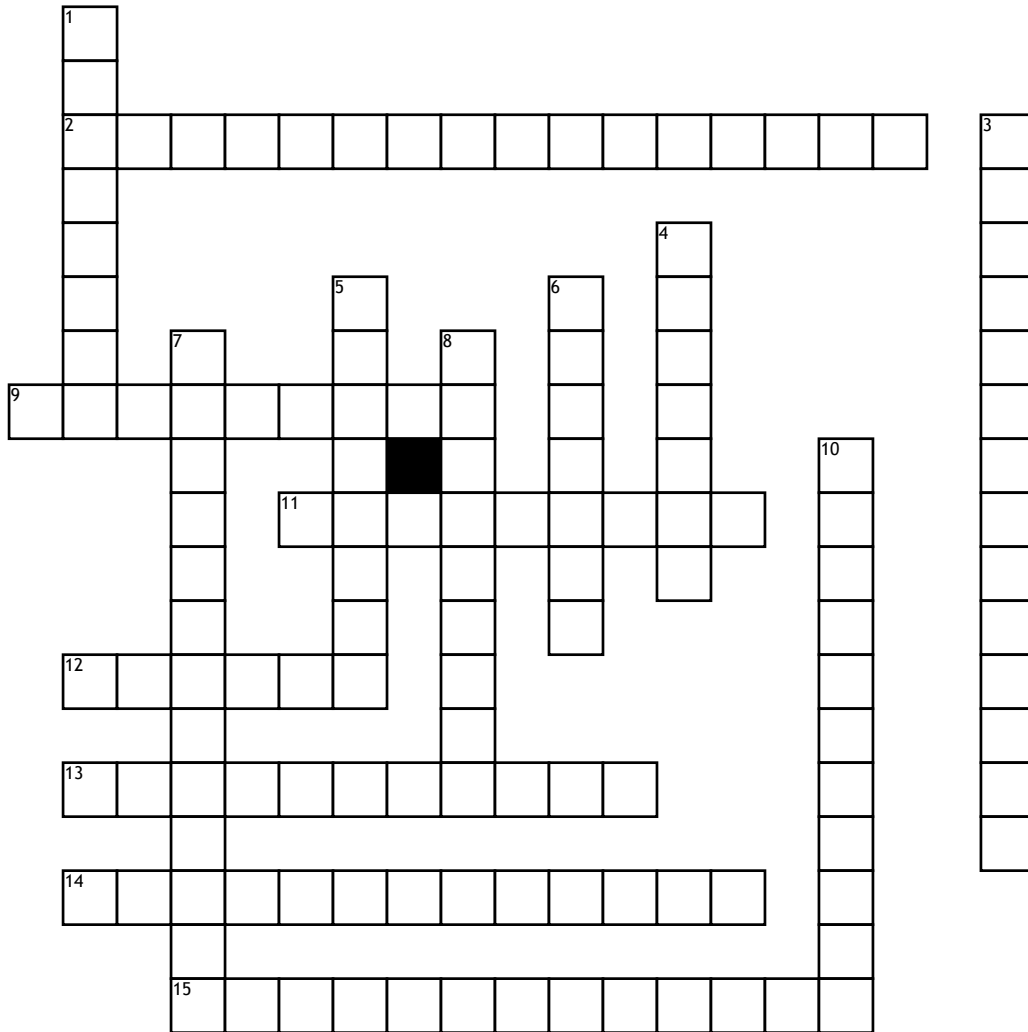


Name: _____

Date: _____

Cell Cycle



Across

2. Short fragments of DNA that comprise the lagging strand

9. 2nd phase of mitosis

11. Grainy material that DNA forms when it is not coiled into chromosomes

12. joins Okazaki fragments to make one strand

13. Splitting of the cytoplasm to form daughter cells when a cell divides

14. DNA strand that DNA polymerase constructs in the 5' to 3' direction

15. enzyme that builds a new DNA strand during DNA replication

Down

1. 1st phase of mitosis

3. process in which a cell's entire DNA is copied

4. process in which the nucleus of a eukaryotic cell divides

5. 3rd phase of mitosis

6. enzyme that builds a short RNA primer on the lagging strand during DNA replication

7. DNA strand at the opposite side of the replication fork from the leading strand.

8. Last stage of mitosis

10. enzyme that breaks the hydrogen bonds holding the two DNA strand during DNA replication

Word Bank

DNA Polymerase

Ligase

Primase

Lagging strand

DNA replication

Mitosis

DNA helicase

Telophase

Okazaki Fragments

Anaphase

Cytokinesis

Metaphase

Leading strand

Prophase

Chromatin