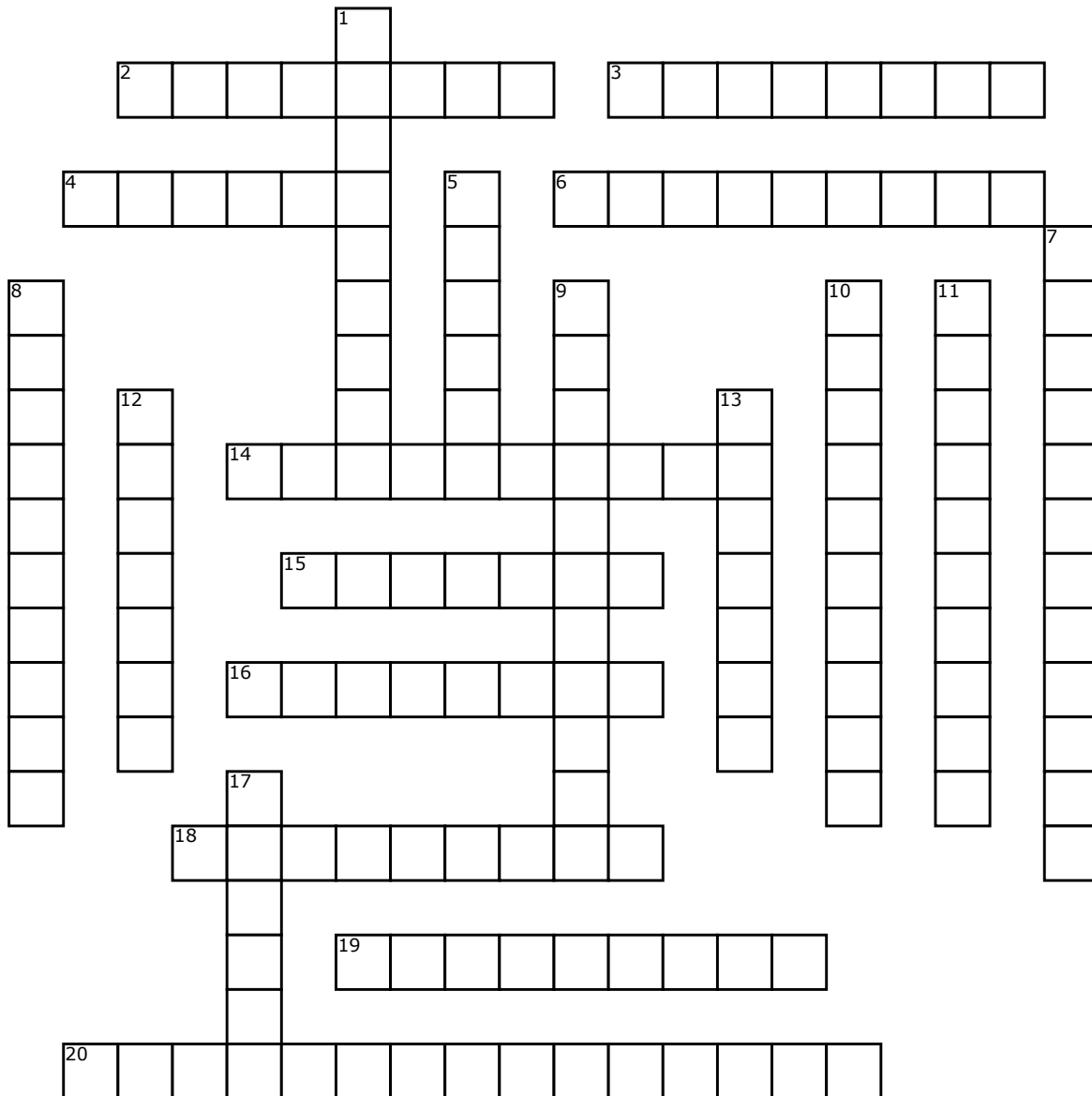


Name: \_\_\_\_\_

Date: \_\_\_\_\_

# Mitosis and DNA



## **Across**

- 2.** Longest phase of Mitosis, genetic material condenses, chromosomes become visible  
**3.** Chromosomes separate and move along spindle fibers towards opposite poles  
**4.** Many of the organelles and molecules required for cell division produced during this period.  
**6.** Forms during cytokinesis in a plant cell  
**14.** Duplicated during Interphase, paired structures move to opposite poles  
**15.** Division of the cell membrane

**16.** Special proteins in which DNA is tightly coiled

**18.** Chromosomes begin to de-condense and spread out into Chromatin material

**19.** Each DNA strand in the duplicated chromosome

**20.** This structure re-forms around each other cluster of chromosomes during Telophase

## **Down**

**1.** Thread-like genetic material during the G1 phase of Interphase

**5.** More desirable surface area to volume ratio

**7.** Process by which the cell divides into two new daughter cells

**8.** Longest phase in the life of a cell, known as in-between" period of growth

**9.** Division of the cytoplasm

**10.** Genetic information bundled into a package known as a

**11.** Bead like structure of DNA and histones

**12.** Fan like system of microtubules that help to separate the duplicated chromosomes

**13.** Reproduction of genetically identical offspring from a single parent

**17.** Reproduction that involves fusion of two cells