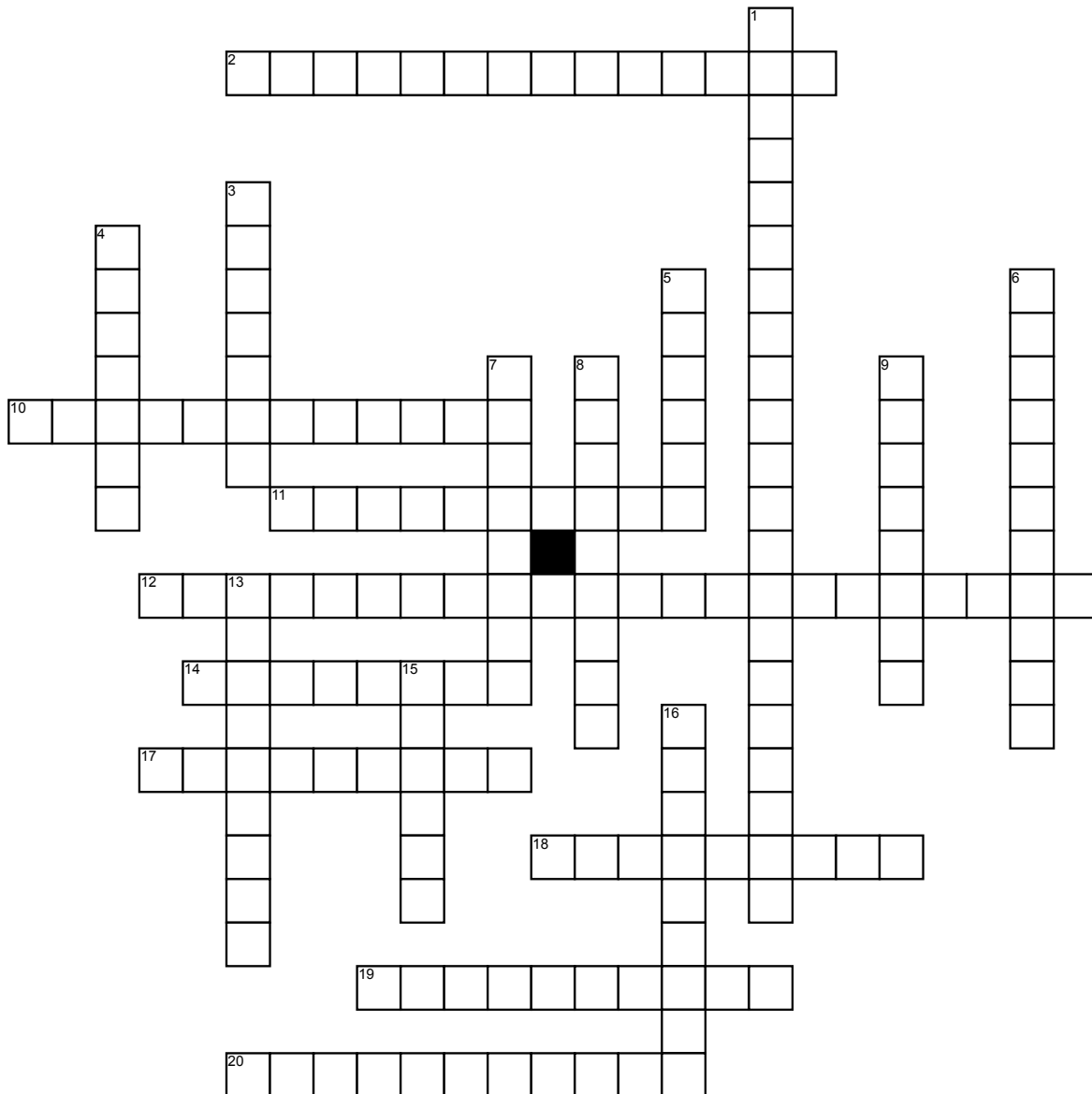


Name: \_\_\_\_\_

# Mitosis and Meiosis



## **Across**

- 2. process of doubling the DNA that occurs before mitosis
- 10. genetic rearrangement between nonsister chromatids
- 11. multicellular diploid stage
- 12. individual chromosomes that carry genes (DNA) derived from two different parents
- 14. homologs move toward opposite poles, guided by the spindle apparatus
- 17. one of two identical strands into which a chromosome splits during mitosis
- 18. development of ova

19. the phase of a cell's life cycle between the reproductive stages of mitosis

20. multicellular haploid stage

## **Down**

- 1. a set of one maternal and one paternal chromosome that pair up with each other inside a cell during meiosis
- 3. Non-sex cell
- 4. 46 chromosomes in this cell
- 5. resulting fertilized egg, is a diploid
- 6. organic process consisting of the division of the cytoplasm of a cell following karyokinesis bringing about the separation into two daughter cells

7. Chromosomes condense, and homologs loosely pair along their lengths, aligned gene by gene

8. map of chromosomes

9. the side by side pairing of homologous maternal and paternal chromosomes at the start of meiosis

13. one of two small cylindrical cell organelles composed of 9 triplet microtubules

15. microtubules and fibers that radiate out from the centrioles

16. Nuclei form, the chromosomes begin decondensing, and cytokinesis occurs