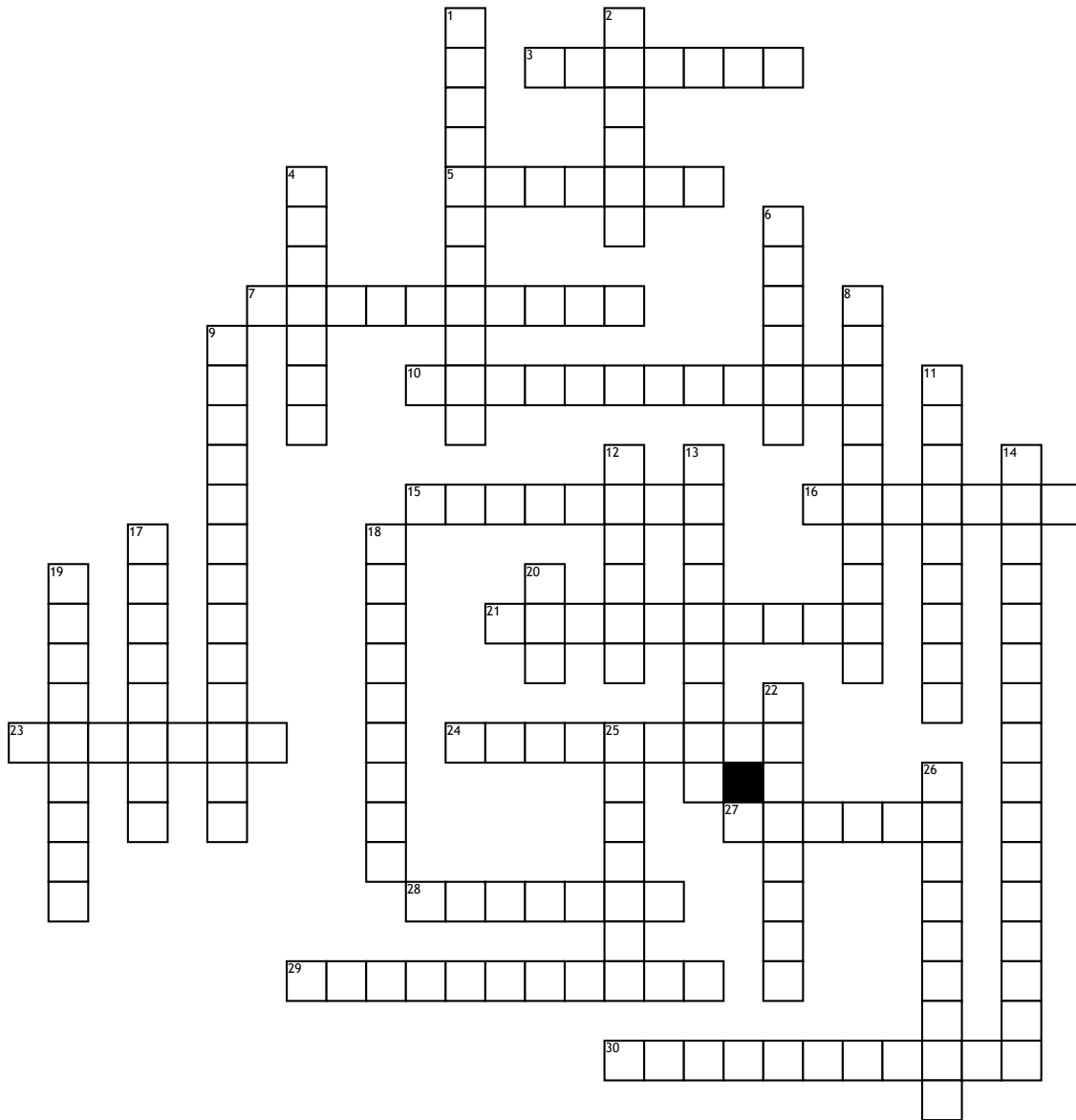


Biology 1B Unit 4



Across

3. time when cell prepares to divide by making extra molecules and organelles
 5. division process to reduce chromosome number to make gametes
 7. area where the 2 DNA copies are held together until split
 10. splitting of one parent cell into 2 new cells
 15. first stage of mitosis, DNA condenses, spindle forms, nuclear envelope breaks down
 16. having 2 sets
 21. non-division time period
 23. structure made from microtubules, separates and moves chromosomes
 24. DNA and Protein
 27. DNA is replicated

28. part of interphase, cell grows and carries out jobs

29. membrane pinched inward and splits cell

30. division of the cytoplasm

Down

1. refers to chromatin tightly condensed for cell division

2. division period

4. sex cells

6. protein that regulates the cell wall

8. structure made from microtubules that organizes the spindle

9. new cells formed from division

11. copy

12. uncontrolled cell growth

13. forms between new daughter cells, becomes

14. each copy of DNA making up the chromosome

17. proteins that DNA wraps around to compact DNA

18. series of events cells go through as they grow and divide

19. fourth stage of mitosis, chromosomes unwrap, nuclear envelopes reform around each set of DNA, spindle breaks down, cytokinesis begins

20. genetic material

22. third stage of mitosis, chromosome splits, move to opposite poles

25. division of the nucleus

26. second stage of mitosis, chromosomes line up in center (equator)