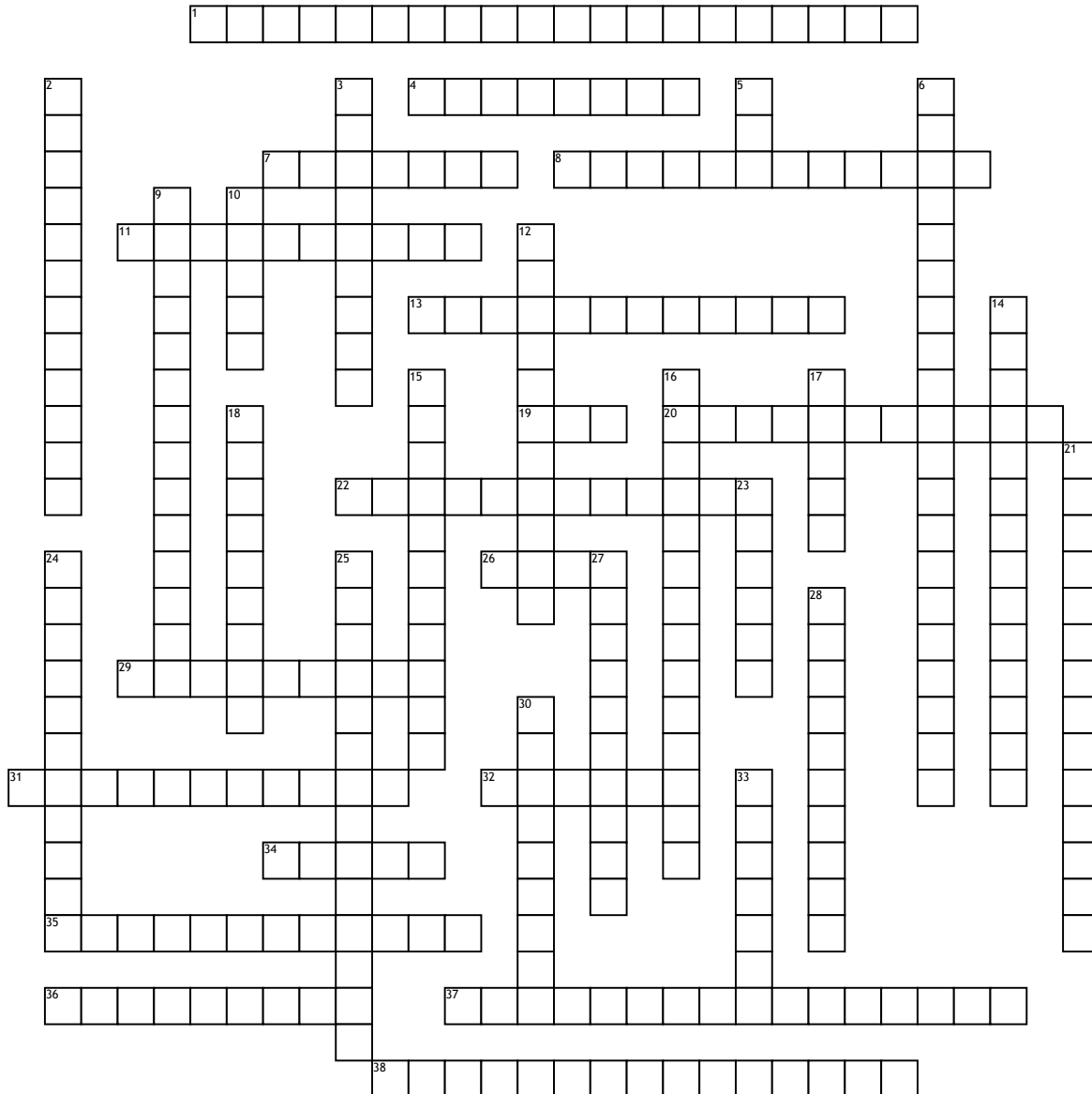


Cells



Across

1. The cell's ER
4. a rigid exterior that helps plants grow upright.
7. is an enclosed organelle found in most eukaryotic cells and is the largest organelle in the cell.
8. Photosynthesis takes place in the
11. _____ membrane proteins are temporarily associated with the membrane and control cell signaling.
13. In plant cells guide the formation of the cell wall
19. In the Phospholipid bilayer each Phospholipid has ----- head
20. are located in the roots and stored in the plastids
22. are flat discs that capture light energy from the sun and are also stored in the plastids.
26. is a short segment of DNA that contains information to encode an RNA molecule into a protein strand.
29. _____ membrane proteins are permanently embedded within the plasma membrane and help transport cells.
31. The tails are
32. is found within the chloroplast.
34. Thylakoids are arranged in stacks called.
35. the cellular scaffolding that helps maintain the cell's shape, holds organelles in place, and allows cell movement and division.
36. The is a membrane that surrounds the central vacuole.

37. protein molecules that are attached to or associated with the membrane of a cell or organelle. There are two groups.

38. The double membrane of the nucleus that encloses the genetic material

Down

2. The cytoskeleton's thickest, hollow cylinders
3. A non-membrane bound organelle in the Nucleus that is responsible for the assembly of ribosomes.
5. In the Phospholipid bilayer each Phospholipid has ----- tails
6. The cytoskeleton's organelles that change from cell to cell
9. The process by which the information in a gene is decoded by various cell molecules to produce a functional gene product such as a protein molecule is called
10. extension of the plasma membrane
12. DNA in the nucleus is organized in long linear strands that are attached to different proteins, these are called
14. can occupy 30-90% of the cell's volume
15. The heads are
16. forms a barrier between the inside of the cell and the outside of the cell.
17. The ER that is studded with ribosomes and makes small sacs called transport vesicles.
18. organelles that are only in prokaryotic cells and make proteins

21. Plastids use a process called _____ to make food for a plant

23. The ER that does lipid synthesis, calcium ion storage, and drug detoxification.

24. Cells without a nucleus are

25. The cytoskeleton's thin chains that twist around one another

27. cells with a nucleus are called

28. Within the stroma there are stacks of _____ (not -----) which are the site of photosynthesis.

30. suspends the cell's organelles and helps keep the cell's shape

33. a mixture of water, enzymes, ions and salts in the central vacuole