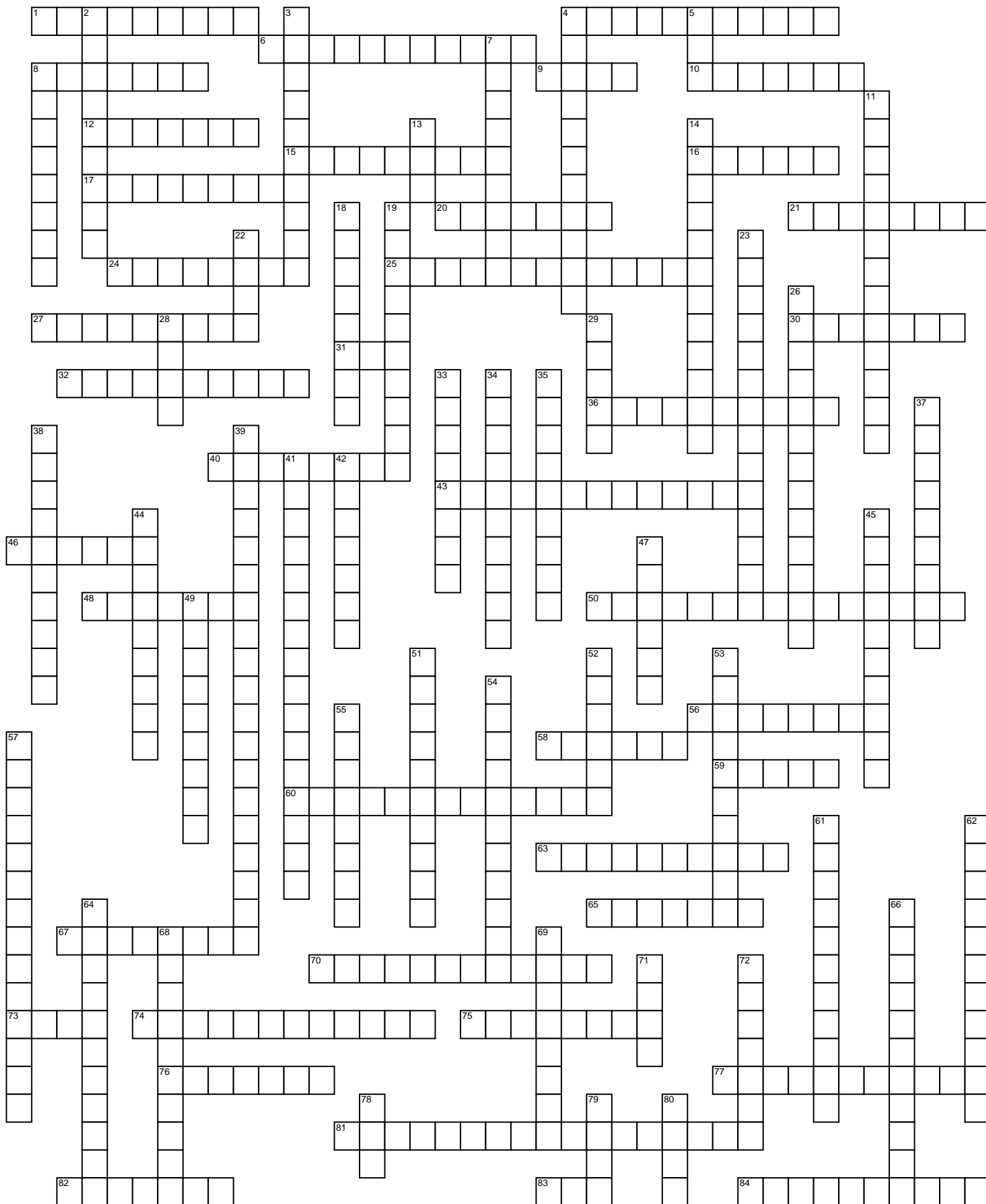


CP Biology

1st Semester Final Exam Study Guide Crossword Puzzle



ACROSS

- 1 There are a million of these in a gram
- 4 Holds the protein lipid bilayer of the plasma membrane together
- 6 The bond that holds amino acids together
- 8 The liquid that fills the cell
- 9 Smallest basic unit of matter
- 10 Process where a cell divides its nucleus and contents
- 12 Adenine and Guanine
- 15 "Little Organs"
- 16 Regulatory protein
- 17 The part of tRNA that lines up with the correct codon
- 20 "Many Bodies"
- 21 Organelle responsible for protein production
- 24 What the Golgi Apparatus makes
- 25 Going from DNA to mRNA
- 27 A non-metal bonded to a metal
- 30 Oxygen Dependant
- 31 "Batteries" that all life runs on
- 32 Harvest energy from pyruvate
- 36 "Sugar Splitting"
- 40 The spindle fibers contract and pull the chromosomes apart
- 43 Some materials can cross the membrane, some can't
- 46 After several trials, by several scientists, a hypothesis cannot be disproved
- 48 string of amino acids
- 50 Adding a phosphate group to ADP
- 56 Both solutions have the same concentration
- 58 Water is split during noncyclic photophosphorolation to release this gas
- 59 Waxes, fats, and oils
- 60 Molecule that has a positive side and a negative side
- 63 The part of an enzyme that bonds to the substrate
- 65 substance made of only one type of atom that cannot be broken down by chemical means
- 67 The longest phase mitosis
- 70 Major biomolecule group that includes sugars and starches
- 73 The major portion of a ribosome
- 74 Two non-metals bonded together
- 75 A mistake in the genetic code
- 76 The protein that holds supercoiled DNA together
- 77 regulation of constant internal conditions in an organism
- 81 Experimental data collected through observation and measurement
- 82 Diffusion of water across a semipermeable membrane
- 83 The genetic information of all

living things

- 84 Distance between any two peaks of a wave

DOWN

- 2 Everything in the cell except for the nucleus
- 3 Amino acid that means start here
- 4 Cell divides
- 5 Microscope that bounces electrons off the surface of object
- 7 Where ribosomes are made
- 8 Two or more different atoms bonded together
- 11 Released in the Krebs Cycle
- 13 Microscope that sends electrons through thin slices of material
- 14 Both types of anerobic respiration
- 18 Not found in animal cells
- 19 DNA replication
- 22 More H's than OH's in solution
- 23 The part of photosynthesis where oxygen is released
- 26 The apparent size of an object
- 28 More OH's than H's in solution
- 29 Cell packaging organelle
- 33 Organelle found in both prokaryotes and eukaryotes
- 34 Cytocine Uracil
- 35 Chromasomes line up in the middle of the cell
- 37 Random, unassisted movement of particles along its concentration gradient from an area of high concentration to low concentration
- 38 Another name for sugar
- 39 Factor that is manipulated by a scientist during an experiment
- 41 Moving materials across a membrane without using energy
- 42 A hydrocarbon plus an OH group
- 44 The solution that has less solute concentration than the cell
- 45 The sour taste in yogurt and sauerkraut
- 47 A hydrogen without an electron
- 49 Cells that have membrane bound organelles
- 51 There are a thousand of these in a meter
- 52 Regulatory Protein
- 53 The ability to observe objects clearly
- 54 RNA and DNA
- 55 Plants have them, but animals don't
- 57 Protein/Lipid bilayer
- 61 Molecule that contain only hydrogen and carbon
- 62 The organelle that contains chlorophyll
- 64 Cells without membrane bound organelles
- 66 Going from mRNA to a protein

- 68 Testable idea of how something works

- 69 Something that controls a chemical reaction but is not changed in the process
- 71 The readable part of a gene
- 72 What 2 PGAL's equal in the Calvin Benson Cycle
- 78 Cell detoxification and lipid synthesis
- 79 The information that is collected during an experiment
- 80 A vibrating disturbance which energy is transmitted through

WORD BANK: Acid, activesite, aerobic, alcohol, anaphase, anticodon, atom, atp, base, carbohydrate, carbondioxide, catalyst, cellwall, chloroplast, cholesterol, compound, covalentbond, cytokinesis, cytoplasm, cytosol, data, dependentvariable, diffusion, dna, element, enzyme, eukaryote, fermentation, glucose, glycolysis, golgi, histone, homeostasis, hydrocarbon, hypothesis, hypotonic, independentvariable, interphase, ionicbond, isotonic, krebscycle, lacticacid, lipid, magnification, metaphase, methionine, microgram, millimeter, mitosis, mrna, mutation, nucleicacid, nucleolus, organelle, osmosis, oxygen, passivettransport, peptidebond, phosphorolation, photosystemtwo, plasmamembrane, polarmolecule, polymer, prokaryotes, prophase, protein, proton, purines, pyrimidine, resolution, ribosome, rna, saccharide, sem, semipermeable, ser, tem, theory, transcription, translation, vessicle, wave, wavelength.