
Biology Fall Final Exam Review Guide

What to bring to the final exam

- #2 pencils, sharpened (or extra lead)
- A good, clean eraser
- Study sheet: one 8.5 X 11 inch page of handwritten notes, front & back, in your own handwriting.
- A quiet activity for after the final, or something to study for your next final.

Academic Honesty

- Cheating on the final exam will result in a 0 on the final and a referral to the Dean to sign an academic honesty contract. Cheating includes, but is not limited to, looking at another person's answers, receiving unauthorized information about the exam prior to taking it, using another student's study sheet, and sharing information about the exam with other students who have not taken it.
- A second academic honesty violation will result in a DROP F for that class, regardless of where the first violation occurred at BHS.
- Refer to the code of conduct in your BHS planner and review our campus wide academic honesty policy.

Finals Schedule

12/14 Tuesday:	2 nd period
12/15 Wednesday:	3 rd & 4 th Period
12/16 Thursday:	5 th & 6 th Period
12/17 Friday:	1 st & 7 th Period

Cell Reproduction: 25 total questions

- Karyotype
- Down's syndrome, trisomy, nondisjunction
- Homologous chromosomes
- Sister chromatids
- Autosomes and sex chromosomes
- When are cells monoploid/ haploid (1N), diploid (2N) or tetraploid (4N)
- Meiosis: purpose, major stages, results
- Mitosis: purpose, major stages, results
- Asexual vs sexual

DNA: 12 total

- History of DNA
- structure of DNA & nucleotides
- types of DNA mutations
- base pair rules
- types and functions of RNA
- transcription & translation

Cell Energy: 13 total

- Products of anaerobic & aerobic respiration
- Formula for cellular respiration & photosynthesis
- Organelles for respiration & photosynthesis
- ATP

Cell Structure & Function: 18 total

- Organelle functions & locations
- Cell theory
- Eukaryotic vs prokaryotic cells
- Animal vs plant cells
- Cell membrane structure and function
- Osmosis and diffusion
- Cell membrane transport

Biochemistry: 12 total

- 4 major macromolecules, monomers and polymers and enzymes.
- pH: definition, scale
- properties of water: cohesion, adhesion, polarity
- atoms, electrons, protons, neutrons, ions

Bioskills: 10 total

- Basic metric conversions
- Scientific method
- Basic microscope calculations
- Measuring volume, length and mass

Laboratory Based Questions: 10 total

- Catalase Lab
- DNA Extraction Lab
- Bioskills Diffusion Lab
- Potato Osmosis Lab
- Photosynthesis Lab
- Organisms & pH Lab

