

2022-2023 Science 9 Final Exam (Semester 1)

Date:

- Wednesday, Jan 25 (Lab Final)
- Thursday, Jan 26 (Written Final)

What you need to bring:

- Pencil/eraser
- Calculator

Topics:

Lab Safety Scientific Method	<ul style="list-style-type: none">• General Safety Rules• General Safety Equipment• WHMIS• General Lab Equipment• Scientific Method• Quantitative and Qualitative Observations• Controlled Experiments• Independent and Dependent Variable
Biology	<ul style="list-style-type: none">• Cell Theory• Organelles• DNA & chromosomes• DNA Model• Asexual Reproduction - Types• Binary Fission• Stages of Mitosis• Sexual Reproduction• Gametes and Fertilization• Stages of Meiosis• Human Embryonic Development
Chemistry	<ul style="list-style-type: none">• Matter• Pure Substance vs. Mixtures• Properties of matter• Physical and Chemical Change• Subatomic Particles• Periodic Table• Properties• Bohr Models• Ions• Ionic and Covalent Compounds (Naming and Writing Formulas)• Multivalent Polyatomic Compounds (Naming and Writing Formulas)

Physics	<ul style="list-style-type: none"> • Types of Energy • Static Electricity • Law of Electric Charge • Electrochemical Cells • Voltage, Current, Resistance • Insulators vs. Conductors • Circuit Diagrams • Ohm's Law • Series vs. Parallel Circuits • Power • Generating Electrical Energy
Earth Science	<ul style="list-style-type: none"> • Living vs Non-living organisms • Limiting factors, carrying capacity • Earth's spheres: Atmosphere, Hydrosphere, Biosphere, Lithosphere • Solar Energy, Winds, Ocean currents • Types of Organisms • Food chains, Food webs, Energy Pyramids • Water cycle • Carbon cycle • Nitrogen cycle • Phosphorus cycle

Things you can use to study:

- Your own study guides!
- Notes Packages
- Worksheets
- Practice Tests
- Past tests (view during flex or by appointment)



Resource “cheat” sheet:

- You will be allowed one one-sided 8.5 x 11 **hand-written** paper to bring in for your final exam.
- It **must** be handed in before the first exam is written. If you fail to do so, you will not be allowed a resource sheet for your final exam.
- It will not be returned to you after the exam.
- Anything can be included on the resource sheet including encouraging messages, inspiring quotes and examples/diagrams.
- You must have **ALL** of your study guides submitted in order to create a “cheat” sheet!