

2021-2022 Science 8 Final Exam

Date:

- Wednesday, January 26
- Thursday, January 27

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• General Lab Equipment• Steps of Scientific Method• Qualitative and Quantitative Observations• Controlled Experiments• Independent and Dependent Variable
Atomic Theory	<ul style="list-style-type: none">• Kinetic Molecular Theory• Matter, Mass, Volume• States of Matter• Changes in State• Thermal Expansion and Contraction• Element, Compound, Mixture• Parts of the Periodic Table• Subatomic Particles• Bohr Model
Cell Theory	<ul style="list-style-type: none">• Characteristics of Living Things• Parts of the microscope• How to use a microscope• How to make a wet mount slide• Magnification• Biological diagram• Organelles• Cell Theory• Diffusion and Osmosis• Immune System• Pandemic and epidemic

Optics	<ul style="list-style-type: none"> • Waves • Visible Light • Electromagnetic Spectrum • Law of Reflection • How to use a Ray Box • Opaque, Translucent, Transparent • Law of Refraction • Measuring Angles • Concave and Convex Mirrors • Concave and Convex Lenses • Parts of the eye • Vision Problems
Geology	<ul style="list-style-type: none"> • Continental Drift Theory • Pangea • Layers of the Earth • Convection Currents • Plate Tectonics and Boundaries • Earthquakes • Volcanoes • Tsunamis

