

Science 10 Exam Review Topics Covered

Chemistry Part 1: Chapter 5 (Grade 10 Text)

- Particle Theory
- Types of Matter
- WHMIS symbols
- Periodic Table
- Parts of an Atom
- Bohr Diagram
- Ionic Compounds
- Molecular Compounds

Chemistry Part 2: Chapter 6 : (Grade 10 Text)

- Law of Conservation of Matter
- Balancing Chemical Equations
- Writing Chemical Equations
- Combustion Reactions (Complete and Incomplete)
- Synthesis Reactions
- Decomposition Reactions
- Single Replacement Reactions
- Double Replacement Reactions

Physics: Velocity: Chp 9 (Grade 10 Text)

Definitions of:

distance, time, speed, constant speed, instantaneous speed, average speed

Rules of Significant Digits

- counting
- adding /subtracting
- multiplying/ dividing

Solve problems involving speed (V_{av}), distance (d), and time (t). the formulas will be provided and the 3.6 conversion factor all other conversions will need to be memorized.

Distance time graphs

- interpreting them
- how slope and speed are related
- drawing a graph given data
- calculating slope given data or graph

Physics: Acceleration: Chp 10 (Grade 10 Text)

Acceleration is the change in speed over time.

There are 3 types of acceleration:

- Constant
- Instantaneous
- Average

Formulas (will be provided)

Graphing:

The line on a velocity vs time graph represents acceleration.

To find acceleration from a graph find the slope of the line.

To find distance from a graph calculate the area under the graph.

Electricity Unit Review Topics

Chapter 9 : (Grade 9 Text)

Electrostatics

Electrostatics Series (chart)

Law of Electric Charges

Charging objects using static

- Friction
- Contact
- Induction

Discharging Electricity

- Static Wicks
- Grounding

Insulators / Conductors

Chapter 10 (Grade 9 Text)

Current Electricity

Circuits

- Parts of a circuit
- Series vs Parallel
- Drawing

Resistance

Current

Voltage

Ohm's Law