

Physics 11 – Homework Assignments

OpenStax Textbook & SNAP Workbook

Unit 1: Investigation & Data Analysis

Textbook (OpenStax)

Complete all **odd-numbered questions** from the following sections:

- Chapter 1: Sections 1.1, 1.2, 1.3
- Chapter 2: Sections 2.1, 2.2

Workbook (SNAP)

Complete the following sections:

- The Nature of Physics
- Significant Digits and Scientific Notation
- Graphing

Unit 2: Kinematics (1D Motion)

Textbook (OpenStax)

Complete all **odd-numbered questions** from the following sections:

- Chapter 2: Sections 2.3, 2.4
- Chapter 3: Sections 3.1, 3.2

Workbook (SNAP)

Complete the following sections:

- Introduction to Kinematics
- Instantaneous Velocity and Speed
- Uniform Accelerated Motion
- Freely Falling Objects
- Kinematics in One Dimension – Graphical Analysis

Unit 3: Dynamics (Newton's Laws)

Textbook (OpenStax)

Complete all **odd-numbered questions** from the following sections:

- Chapter 4: Sections 4.1, 4.2, 4.3, 4.4

Workbook (SNAP)

Complete the following sections:

- Introduction to Dynamics
- Newton's Third Law of Motion
- Forces in Nature
- Force due to Gravity
- Normal and Frictional Forces

Unit 4: Work, Energy & Power

Textbook (OpenStax)

Complete all **odd-numbered questions** from the following sections:

- Chapter 9: Sections 9.1, 9.2

Workbook (SNAP)

Complete the following sections:

- Work
- Energy
- Kinetic Energy
- Law of Conservation of Energy
- Power

Unit 5: Thermal Physics & Gases

Textbook (OpenStax)

Complete all **odd-numbered questions** from the following sections:

- Chapter 11: All sections
- Chapter 12: All sections

Workbook (SNAP)

Complete the following sections:

- Thermal Energy

Unit 6: Waves & Sound

Textbook (OpenStax)

Complete all **odd-numbered questions** from the following sections:

- Chapter 13: All sections
- Chapter 14: All sections

Workbook (SNAP)

Complete the following sections:

- Wave Characteristics
- Physics of Waves

Unit 7: Optics (Geometric & Wave)

Textbook (OpenStax)

Complete all **odd-numbered questions** from the following sections:

- Chapter 15: All sections
- Chapter 16: All sections
- Chapter 17: All sections

Workbook (SNAP)

Complete the following sections:

- Reflection of Light
- Ray Diagrams – Plane Mirrors
- Reflection from Curved Mirrors
- Refraction
- Refraction of Light from Lenses

Unit 8: DC Electric Circuits

Textbook (OpenStax)

Complete all **odd-numbered questions** from the following sections:

- Chapter 18: Section 18.1
- Chapter 19: All sections

Workbook (SNAP 12)

Complete the following sections:

- Electric Current
- Electric Circuits
- Electromotive Force (EMF)

Submission Instructions

- Clearly label your pages
- Label your questions
- Draw a box around your solution statements
- Submit a PDF of your solutions

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