

Science 9
Semester 2 Exam
Study Guide

Chapters covered: 8, 9, 10, 11, 12, 13, 14, 16, 19

In order to prepare you should know the following:

Chapter 8

- Vocabulary
- Newton's Laws
- Equations: $F = ma$
 $P = mv$
- Units
- Types of friction
- Graphing

Chapters 9, 10

- Heat transfer
- Units
- Forms of Energy
- Vocabulary
- Simple Machines
- Temperature Scales
- Equations: $W = F \times d$
 $P = W / t$

Chapters 11, 12

- Speed of light
- Wave properties
- Wave interactions
- Electromagnetic Spectrum
- Units
- Equations: $v = f \times \lambda$
- Vocabulary

Chapters 13, 14

- Units
- Types of batteries
- Electromagnets
- Series vs. Parallel Circuits
- Equations: $V = I \times R$
- Vocabulary

Chapter 16

- Vocabulary
- Stars
- Moon phases
- Eclipse
- Parts of Apollo spacecraft

Chapter 19

- Vocabulary
- Fossil fuels
- Power generation
- Alternative energy sources