Chapter 1

Section 1.1 “What is Physics”

1. The universe is made up of what two things?
2. What is a natural law?
3. Explain the difference between mass and matter?
4. Define variable.
5. Provide an example of an observation on the macroscopic scale and one observations on the microscopic scale.
6. What are the steps to the scientific method.
7. The variable that is the cause of change is the variable.
8. The variable that shows change is the variable.
9. What is required to cause change in a system?

Section 1.2 “Distance and Time”

1. Define measurement.
2. What is an example of a unit?
3. Explain the difference between distance and length.
4. There are two common systems of standardized units that are used for measuring distances what are they?
5. Define time interval.
6. Does the independent or dependent variable go on the x-axis?

Section 1.3 “Speed”

1. Describe the difference between speed and constant speed.
2. How do you calculate speed?
3. What does “per” mean?
4. Provide some examples of units of speed.
5. Write down the speed formula and figure 1.18.
6. Why is v used to represent speed?
7. How do you solve a physics problems?

Textbook Problems:

Understanding Vocabulary P.24 #1-13.

Solving Problems P. 25 #3-7