**Objectives Unit 1 – Intro to Science**

**Chap 1. 1 “The Nature of Science”**

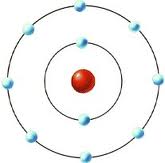
* What is **Science**?
  + Answering “Why, How, What…”
* How is **Science** different from **Technology / Engineering**?
* Why is the scientist’s definition of a **Theory** different from the everyday definition?
* What’s a **Model**?
  + **Physical**



* + **Computer/Mathematical**



* + **Conceptual**



**Chap 1.2: The Way Science Works**

* What is the **Scientific Method**, its steps, and why is it used?
* What are the components of a **Controlled Experiment**?
* Be able to identify the variables in a given experimental description.
* Be able to design a simple experiment to answer a question.
* What are **Variables**?
  + **Independent**
  + **Dependent**
  + **Control**

**Additional Topics Not in the Text**

* What is the difference between **qualitative and quantitative**?
* What are the **4 common misconceptions** that people have with science?
  + See Dyer PP
* What are the common types of science and what do they study?
  + See online activity
* What are the **parts of a Scientific Study**, and what do each include?