

# Chapter 1

## Introduction

### A. Properties of living things

list them and relate them to further materials

### B. Scientific Method

subject matter and limitations

inductive vs. deductive reasoning  
(specific to general) (general to specific; if...then)

Hypothesis: must be testable (falsifiable)

Experiments/observations test hypothesis

must be reproducible

must have appropriate controls

Paradigm: framework

changes periodically with scientific revolution

Ethics:

deontological

written code, individual rights  
emphasis on actions  
(right vs wrong)

utilitarian

greatest good for most  
emphasis on consequences