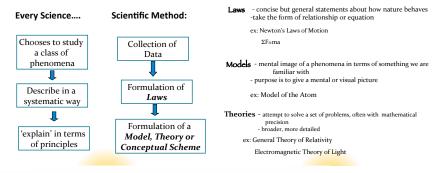
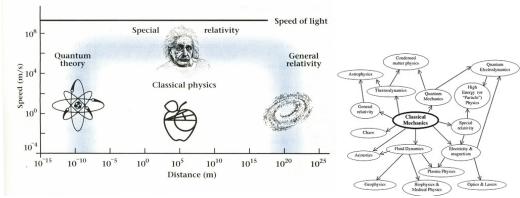
## NASC 3 Physics in Everyday Life

Physics is the study of matter, energy, space and time, without which there would be nothing in existence to react or thrive or live or die. The entire universe is built upon of the principles revealed by a study of physics

" The object of all sciences is to coordinate our experiences and to bring them into a logical system."-Albert Einstein

It is the tension between creativity and skepticism that has produced the stunning and unexpected findings of science. -Carl Sagan





## Classical Physics (< 20th century)

- Mechanics deals with motion, inertia, force at energy.
- ☐ Thermodynamics involves heat flow, heat transformations at temperature measurements
- ☐ Electricity and Magnetism deals with aspects of matter at space, emphasis on electric charge and electric current
- Optics nature and propagation of light

## Modern Physics (≥20th century)

- ■Modern Physics extension of physics at the atomic and macroscopic level.
  - Relativity
  - ■Quantum Mechanics
  - **■**Condensed-matter physics
  - ■Nuclear physics
  - $\blacksquare A strophysics$