

1900 A.D.

**Classical Physics**

**Modern Physics**

**Fundamental  
Disciplines**

**Classical Mechanics** [*Newton*]  
**Thermodynamics** [*Gibbs*]  
**Electromagnetism** [*Maxwell*]  
**Geometric Optics** [*Galileo*]

**Quantum Mechanics** [*Schrödinger*]  
**Relativity** [*Einstein*]

**Applied  
Disciplines**

**Acoustics**

**Particle Physics**  
**Solid State Physics**  
**Atomic/Molecular Physics**  
**Nuclear Physics**  
**Cosmology**  
**Engineering**

Applies to everyday  
*sizes* and *speeds*

Applies to extreme  
*sizes* and *speeds*