

# Lebanon Evangelical School for Boys and Girls

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## Final Exams : May 2010

Please place on this sheet the contents of your course that you will be examining in your Final Exam. Details are expected. Chapter numbers, section headings and the like. Please type using this template and then email the template to me using the following syntax in the Subject header of the email : TaughtSubject : Class. Thus if I were sending details of Maths in 7A the subject of the email would be : "Maths : 7A"

Teacher : Sami Nasr	Subject : Physics, Class 10
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### Chapter 1: **Electrostatics.**

Quantity of charge. Number & charge of electrons.  
Forces of Interaction between charges.  
Distribution & Conservation of charge.

### Chapter 2: **Potential Difference.**

Flow of charge.  
Presence of voltage.  
Law of addition of voltages.

### Chapter 3: **Electric Current.**

Flow of charges & electricity in solid & liquid conductors.  
Sense of the electric current.  
Junction rule. (Splitting of the current)

### Chapter 4: **Resistors.**

Grouping in series & in parallel.  
Plotting Voltage-Current characteristic.  
Voltage across resistors.  
Colour Code.

### Chapter 5: **Generators & Receivers.**

Plotting Voltage-Current characteristics of both generators & receivers.  
Identifying their characteristics; e.m.f & b.e.m.f & their internal resistance.  
Useful & total power of both.  
Efficiency of both.

### Chapter 6: **Electric Circuits.**

Placing generators & receivers in one circuit.  
Pouillet's Law.

### Chapter 7: **Waves.**

Longitudinal & Transverse waves.

Electromagnetic Spectrum.  
Simple Pendulum.

Chapter 8: **Optics.**

Refraction.  
Total Internal Reflection. Applications  
Descartes & Snel Law.

Chapter 9: **Motion of Particles**

Uniform & Accelerated motions.  
Areas under curves.  
Motion of Pucks on air tables.  
Instantaneous & Average velocities.

Chapter 10: **Rectilinear Motion.**

Time equation.  
Velocity-Acceleration.  
g-forces.

Chapter 11: **Forces.**

Vectorial addition of Forces.

Chapter 12: **Newton's Laws**

Principle of Inertia.  
Fundamental Principle of Dynamics.  
Principle of Interaction.

Chapter 13: **Inclined Planes**

Motion along 2 axes.