

# Lebanon Evangelical School for Boys and Girls

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Sunday, January 10, 2010

## Mid Year Exams : February 2010

Please place on this sheet the contents of your course that you will be examining in your Mid Year 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 : 11S

### Chapter 1: **Stroboscopy.**

Use of stroboscopes.  
Persistence of vision.

### Chapter 2: **Superposition of waves.**

In-phase & in-opposition of phase motion.  
Longitudinal & Transverse waves.  
Interference of waves  
Constructive & destructive superposition.  
Resonance.  
Melde's experiment (nodes & antinodes)  
Measurement of the speed of sound.

### Chapter 3 & 4: **Emission, Propagation & Reception of sound.**

Emission of sound by humans & by loudspeakers.  
Propagation of sound in different mediums. (Gases, liquids, solids...)  
Reception of sound by the human ear & by microphones.  
Functioning of Loudspeakers & Microphones.  
Applications of Infrasound & Ultrasounds. (Piezoelectric ...)

### Chapter 7: **Kinematics.**

Trajectories.  
Displacement, Position, Velocity & Acceleration Vectors.  
Normal & Tangential accelerations.  
Circular Motion.

### Chapter 8: **Dynamics.**

Newton's 2<sup>nd</sup> Law (F.P.D)  
Statics. (Static & dynamic friction...)  
Inclined Planes.  
Projectiles.  
Satellite Motion.  
Mechanical Energy.