

EMS Doha Secondary Mock Revision Guide '24-25

Year: Year 12

SUBJECT: AS Physics

TEACHER(S): Ms Faten & Mr Karam

REVISION INFORMATION

Topics/Chapters	Details
Unit 1: Physical Quantities & Measurement Techniques.	<ul style="list-style-type: none">• 1.1 Physical quantities and units• 1.2 SI units• 1.3 Errors and uncertainties• 1.4 Scalars and vectors• P1- Practical Skills.
Unit 2: Kinematics	<ul style="list-style-type: none">• 2.1 Motion with constant speed,• Uniformly accelerated motion &• Equations of motion.
Unit 3: Dynamics	<ul style="list-style-type: none">• 3.1 Momentum and Newton's Laws of motion• 3.2 Non-uniform Motion• 3.3 Linear momentum and its conservation
Unit 4: Forces, Density & Pressure	<ul style="list-style-type: none">• 4.1 Turning effects of forces• 4.2 Equilibrium of forces• 4.3 Density and pressure
Unit 5: Work, Energy & Power	<ul style="list-style-type: none">• 5.1 Energy conservation• 5.2 Gravitational potential energy and Kinetic energy
Unit 6: Deformation of solids	<ul style="list-style-type: none">• 6.1 Stress and strain• Elastic and plastic behaviour

Key Coursebook: Cambridge International AS and A Level Physics Coursebook with CD-ROM; David et al 2nd Edition.

Additional information

- Class notes and powerpoints covered in class.
- End of unit tests and revision worksheets
- End of chapter and Exam style questions in the textbook.
- Past papers both paper 1, paper 2.
- For Paper 3 Review Practical Guide given in class.
- [Physics revision guide by Richard Woodside](#)

Useful Websites

- [Savemyexams](#)
- [PhysicsandmathsTutor](#)
- [ALevelphysicsonline](#)
- [S-cool Physics](#)

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- [Physicsmadeeasy](#)
- [Khanacademy](#)
- [The Physicszone](#)