

# INTERNATIONAL INDIAN PUBLIC SCHOOL – RIYADH

Subject: PHYSICS

Grade: XII

## I Term Plan [23 March 2021 to 24 October 2022]

Sr. No	Week	Chapter	Class Work	Home Work
1	23/03 to 25/03	1. Electrical charges and fields	Coulombs law, Electric field, field lines	
2	28/03 to 01/04		Electric dipole	
3	04/04 to 08/04		Gauss's theorem & applications	Work sheet (given in group)
4	11/04 to 15/04	2. Electrostatic Potential and Capacitance	Electric potential	
5	18/04 to 22/04		Conductors and insulators. Capacitors	Work sheet (given in group)
6	25/04 to 29/04		NCERT exercises and board questions	
7	02/05 to 17/05	<b>Ramadan holidays</b>		
8	18/05 to 20/05	3. Current Electricity	Current, voltage, emf, resistance, ohm's law	
9	23/05 to 27/05		Combinations of resistors and cells, Kirchhoff's laws.	
10	30/05 to 03/06		Wheatstone bridge potentiometer	Work sheet (given in group)
11	06/06 to 10/06	4&5. Moving Charges and Magnetism	Biot-Savart law and its application	
12	13/06 to 17/06		Ampere's law and its applications, moving coil galvanometer	
13	20/06 to 24/06		magnetic dipole and its magnetic dipole moment, solenoid	
14	27/06 to 03/07		Para-, dia- and ferro - magnetic substances, NCERT exercises and board questions	Work sheet (given in group)
15	04/07 to 11/07	<b>Unit Test -I</b>		
16	12/07 to 14/07	6. Electromagnetic Induction	Electromagnetic induction; Faraday's laws, induced EMF and current Self and mutual induction.	Work sheet (given in group)
17	15/07/2021	<b>PTM</b>		

<b>18</b>	18/07 to 09/09	<b>Summer holidays</b>		
<b>19</b>	12/09 to 16/09	7. Alternating Current	Alternating Current LCR series circuit AC generator and transformer.	Work sheet (given in group)
<b>20</b>	19/09 to 23/09	8. Electromagnetic Waves	Electromagnetic waves- basic idea and applications	
<b>21</b>	26/09 to 30/09		NCERT exercises and board questions	Work sheet (given in group)
<b>22</b>	03/10 to 14/10	<b>First -Term Examination</b>		
<b>23</b>	17/10 to 21/10	<b>Non-Instructional Days</b>		

M. Haroon .  
Teacher's Name

Haroon  
Teacher's Sign

### **II Term Plan [25 October 2021 to March 2022]**

Sr. No	Week	Chapter	Class Work	Home Work
1.	25/10 to 28/10	9. Ray Optics and Optical Instruments	Reflection of light, spherical mirrors, refraction at spherical surfaces total internal reflection and its applications	
2.	31/10 to 04/11		lenses, thin lens formula, lens maker's formula, combination of thin lenses in contact, refraction of light through a prism.	
3.	07/11 to 11/11		Scattering of light Optical instruments: Microscopes and astronomical telescopes	Work sheet (given in group)
4.	14/11 to 18/11	10. Wave Optics	Wave front and Huygen's principle diffraction due to a single slit Young's double slit experiment	Work sheet (given in group)
5.	21/11 to 25/11	11. Dual Nature of Radiation and Matter	Photoelectric effect de-Broglie relation	Work sheet (given in group)
6.	28/11 to 02/12	12.& 13 Atoms And Nuclei	Alpha-Particle Scattering Experiment, Atomic Models, Energy Levels	Work sheet (given in group)
7.	05/12 to 08/12	14. Semiconductor Electronics: Materials, Devices and Simple Circuits	Energy bands, Semiconductor diode, Special purpose p-n junction diodes	Work sheet (given in group)

8.	09/12 to 16/12	<b>Unit Test -II</b>
9.	19/12 to 22/12	<b>Auxiliary Term End Assessment (2021-2022)</b>
10.	<b>23/12/2021</b>	<b>PTM</b>
11	-	<b>Winter holidays</b>
12	18/01 to 30/01/2022	<b>Pre Board- I Examination</b>
13	06/02/2022	<b>Results</b>
14	07/02 to 09/02	<b>Remedial classes</b>
15	10/02 to 22/02	<b>Pre Board- II Examination</b>
16	23/02 to 28/02	<b>Remedial classes</b>

*Mrs. Hancock*

Teacher's Name

*Hancock*

Teacher's Sign