

Science (Physics)

S. N o .	Month	Chapter Number and Chapter Name	Learning outcomes
1 .	April	Chapter 12 Electricity	The learners <ul style="list-style-type: none">● Understands topics like electric current, electric circuit , electric potential and potential difference .● Draws symbols of some

			<p>commonly used components in circuit diagrams .</p> <ul style="list-style-type: none"> • Learns the formulas and units of electric current , electric potential and potential difference etc. • Solves questions based on the above mentioned topics .
2 .	May	Chapter 12 Electricity	<p>The learners</p> <ul style="list-style-type: none"> • Explores Ohm's law .

			<ul style="list-style-type: none"> ● Applies Ohm's law to combinations of resistors . ● Identifies the factors on which the resistance of a conductor depends . ● Understands the topics Heating Effect of Electric Current and Electric Power . ● Solves and practices numericals .
3 .	July	Chapter 13	The learners

		<p>Magnetic Effects of Electric Current</p>	<ul style="list-style-type: none">● Identifies magnetic field and field lines due to current carrying straight conductor , circular loop , solenoids.● Explores about force on a current carrying conductor in a magnetic field .● Learns to apply Maxwell Right Hand Thumb Rule to find magnetic field around a straight conductor . Fleming's left hand rule to find the
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			direction of motion or force acting on the conductor .
4 .	August	Chapter 13 Magnetic Effects of Electric Current	<p>The learner Describes the principle and working of electric motor , Recognizes electromagnetic induction . Constructs the diagrams of electric motor and inducing current in a coil .</p> <ul style="list-style-type: none"> • Applies Fleming's right hand rule to find the direction of induced current .

5 .	September	Chapter 10 Light - Reflection and Refraction	<p>The learner</p> <ul style="list-style-type: none"> ● Recalls reflection of light and laws of reflection . ● Recognizes spherical mirrors . ● Represents images formed by spherical mirrors using Ray diagrams . ● Classifies image formation by concave and convex mirrors .
6 .	October	Chapter 10 Light - Reflection	<p>The learner</p> <ul style="list-style-type: none"> ● Recognizes mirror formula and

		and Refraction	<p>magnification produced by a spherical mirror .</p> <ul style="list-style-type: none">• Observes refraction through a rectangular glass slab .• Explores refraction by spherical lenses by drawing Ray diagrams of image formation by lenses .• Solves numerical based on lens formula ,
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			magnification and power of lens .
7 .	Novemb er	Chapter 11 The Human Eye and The Colorful World	<p>The learner</p> <ul style="list-style-type: none"> ● Unable to understand the texture of the human eye . ● Draws the diagram of the human eye . ● Understand about refractive index . ● Solves the questions related to the above mentioned topics .

8 .	Decemb er	Chapter 11 The Human Eye and The Colorful World	The learner <ul style="list-style-type: none"> ● Explores refraction of light through a prism . ● Observes Dispersion of white light by a glass prism . ● Learns to draw diagram of dispersion of white light by the glass prism and recombination of the spectrum of white light .
9 .	January	Chapter 11 The	The learner

		<p>Human Eye and The Colorful World</p>	<ul style="list-style-type: none">● Observes atmospheric refraction like<ul style="list-style-type: none">a) Twinkling of starsb) Advance sunrise and delayed sunset.● Explorers several spectacular scattering phenomena of light .● Identifies Tyndall Effect .● Recognizes the reasons why the color of the clear sky blue and what is the
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