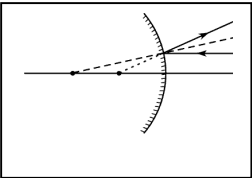
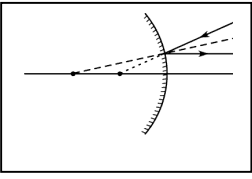
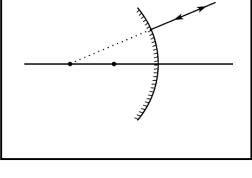
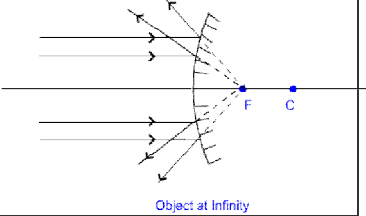
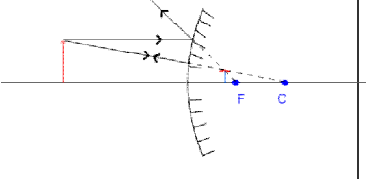


CLASS-10
PHYSICAL SCIENCE
PERIOD PLANS

CHAPTER: 03 – REFLECTION OF LIGHT BY DIFFERENT SURFACES

PERIOD PLAN-09 : Ray diagram for reflection in convex mirror
Place of object and place of image
Real and virtue images

Content Analysis	Class Room Environment	Teaching Learning Material (charts having the diagrams / Use black board to draw them))
<p><u>Useful rays to draw ray diagrams:</u></p> <p>(i) A ray parallel to the axis, on meeting the convex mirror will get reflected so as to appear as if it is coming from the focal point.</p> <p>(ii) A ray travelling in the direction of the focal point, after reflection, will become parallel to the axis.</p> <p>(iii) A ray travelling in the direction of the centre of curvature will, on reflection, travel in the opposite direction and appears to be coming from the centre of curvature.</p> <p>nagamurthy.weebly.com</p>	<p>Conversation: about the useful rays to draw ray diagrams.</p> <p>Explanation: How to draw ray diagrams.</p>	<p>(i) </p> <p>(ii) </p> <p>(iii) </p>
<p><u>Ray diagram for reflection in convex mirror:</u> <u>Place of object and place of image</u> <u>Real and virtue images</u></p>	<p>Conversation: About the places of object for convex mirror.</p>	
<p>There are only two possibilities of position of object in the case of a convex mirror. They are</p>		
<p><u>(i) Object at infinity:</u> The image is formed at focus of convex mirror behind the mirror. The image is virtual, erect and highly diminished.</p>	<p>Explanation: to draw the ray diagrams for convex mirrors.</p>	 <p style="text-align: center;">Object at Infinity</p>
<p><u>(ii) Object between infinity and pole:</u> The image is formed between pole and focus of convex mirror behind the mirror. The image is virtual, erect and diminished.</p>		 <p style="text-align: center;">Object between Infinity and P</p>