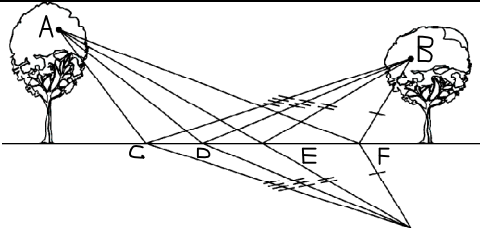
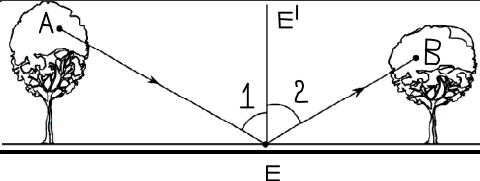
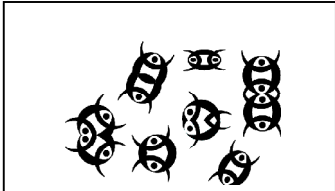



CLASS-10
PHYSICAL SCIENCE
PERIOD PLANS

CHAPTER: 03 – REFLECTION OF LIGHT BY DIFFERENT SURFACES

PERIOD PLAN-02 : Nearest distance for light reflection

Finding the images formed by Mirror - Activity

Content Analysis	Class Room Environment	Teaching Learning Material
<p><u>Finding nearest distance for reflection of light:</u></p>  <p>The crow can pick the grain from any point on the ground but the condition is; selecting a point on the ground to reach point 'B' from point 'A' in least possible time. Compare the lengths of these paths.</p> <p>length of the path ACG = length of the path ACB length of the path ADB = length of the path ADG length of the path AEB = length of the path AEG length of the path AFB = length of the path AFG</p> <p>The shortest path is AEG, because it is the straight line distance between points A and G. nagamurthy.weebly.com</p>	<p>Explanation: Finding nearest distance for light reflection. (By solving the problem of crow). A smart crow on a tree at point 'A'. There is some grain on the ground. The crow wants to reach the top of another tree, which is opposite to the first tree. Also it has to pick up at least one grain. From where should the crow pick up the grain? nagamurthy.weebly.com</p> <p>Conversation : About the reflection of light in the view of shortest path of crow.</p>	Chart
 <p>If we draw a normal EE' at point E. angle AEE' (angle 1) = angle $EE'B$ (angle 2).</p> <p>Fermat rule: Like the crow in the above situation, light also selects the path which takes the least time to travel. This principle was first given by Pierre de Fermat, a French lawyer and an amateur mathematician. It is also applicable to reflection of light. When light gets reflected from a surface, it selects the path that takes the least time. That is why the angle of incidence is equal to the angle of reflection</p>	<p>Conversation : About the reflection of light in the view of shortest path of crow.</p>	
<p><u>Finding the images formed by Mirror:</u></p> 	<p>Activity-5: What will you do to obtain figures that are shown in figure?</p>  <p>Place the plane mirror strip on the figure and observe?</p>	<p>Plane Mirror Paper with figure</p> 