CLASS-10

PHYSICAL SCIENCE

PERIOD PLANS

CHAPTER: 03 – REFLECTION OF LIGHT BY DIFFERENT SURFACES

PERIOD PLAN-05:

Reflection of light by spherical mirrors

Radius of curvature, Principal axis, pole

Parallel beam of rays

Taraner beam of rays		
Content Analysis	Class Room Environment	Teaching Learning Material
Reflection of light by spherical surfaces: Mirrors having a curved reflecting surface are called spherical mirrors. A spherical mirror is a part of a sphere. * Spherical mirrors are of two types. They are convex and concave mirrors. * Spherical mirror with reflecting surface curved inwards is called concave mirror. * Spherical mirror with reflecting surface curved outwards is called convex mirror.	Activity-9: Take spherical mirrors (convex and concave). Observe the surfaces by touch it. Also observe the images formed in the mirrors. Observation: The surfaces are different for convex and concave mirrors at reflection surface.	Convex mirror Concave mirror
Finding the normal to a curved surface: Draw a tangent at the incident point to the curved surface. Then draw a perpendicular to the tangent at the incident point, called normal. It must passes through the centre of curvature.	Conversation: about to draw a normal for spherical mirrors at a point.	
Radius of curvature, Principal axis, pole: Pole: The centre of the reflecting surface of a spherical mirror is called as Pole. It is denoted by 'P'. Centre of curvature: The centre of sphere, of which the reflecting surface of a spherical mirror is a part is called the centre of curvature. It is denoted by 'C'. Focus: The point on the principal axis at which the parallel rays coming from infinity converges after reflection is called focus of the spherical mirror. It is denoted by 'F'. nagamurthy.weebly.com	Explanation: About the scientific terms of Convex and concave mirror. Reflecting Surface Centre of Curvature Principal Ratis Concave Mirror - Different Frailings	Chart Charte of the properties of the first propertie
Radius of curvature: The radius of sphere, of which the reflecting surface of a spherical mirror is a part is called the radius of curvature. It is denoted by 'R'. Focal length: The distance between pole and focus is called focal length of the spherical mirror. It is denoted by 'f'. Principal axis: The line passing through the pole and centre of curvature of spherical mirror is called principal axis of the mirror.	Reflecting Surface Centre of Curvature Principal Focus Pule Principal Axis Convex Mirror - Different Positions	Particular type curring for infinity appart to
Parallel beam of rays: Parallel, convergent and divergent beams of light rays.	Conversation: about types of beams of light rays.	Chart

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