

Maze Warriors

Light travels in a straight line and never curves, but changes its direction through reflection. The light ray that strikes a surface is called the incident ray, while the one that bounces off is the reflected ray. All reflected light obeys the Snell's Law, that the angle of incidence equals the angle of reflection. If a reflected light ray is reflected again on being incident on another surface, it is termed multiple reflections. Multiple reflections are used in periscopes and kaleidoscopes. A periscope is an instrument used for observing objects from a hidden position. It is used in submarines, war tanks, and by soldiers in bunkers to see objects that are not visible directly. In a kaleidoscope, beautiful patterns are formed due to multiple reflections.

By using the concept of reflection, a mirror maze is created. Mirrors are placed to reflect a laser beam onto the target. Players who play this game will apply the fundamental concept of light and how light travels in order to reflect a ray of light and successfully hit a target. To start, one player sets up a target and blocks, trying to make a difficult path for the laser. The opponent uses mirrors to get around the obstacles and direct the light beam to the target. The winner can be determined using several factors such as the use of fewer number of mirrors, higher number of obstacle blocks, fastest time, and many other factors. This would be a great interactive activity and fun science game.

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