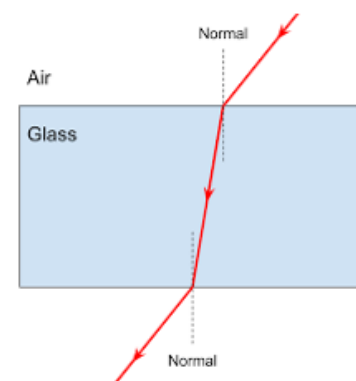


Knowledge Organiser

Years 3

Subject: Science Main Learning: Light and Dark

Key knowledge		Vocabulary	
Know why we have light and dark and its impact on our everyday life	Date completed	reflection	Occurs when a ray of light hits a surface and bounces off
Know what dark is (in relation to absence of light)		shadows	Is formed when an object blocks out the light. The object must be opaque or translucent to make a shadow
Know why we need light		opaque	Opaque objects do not allow light to pass through them, in most cases creating a shadow
Know what happens to light when it hits a shiny object		refraction	It is the change of direction of a light ray as it passes through different surfaces, for example, from air to water
Know how a shadow is formed and why they change shape		convex	These are lenses, also called positive lenses. Are lenses that curve outward from the edges to the centre
Know the dangers of looking directly at the Sun		concave	This is a lens where the centre of the lens is thinner than the edges



Prior Knowledge –