Year 3: Light Autumn 2 Year A		
What should I already know? I know that some things produce light, for example, candles, fire and lamps.		
Key Vocabulary		I am learning to
Light Light source Light rays Bright Dark Absence Mirror Reflect Reflective Translucent Transparent Opaque Shadow Emits	A type of energy that can be detected by the human eye. An object that produces and gives out its own light. The straight lines of light that light travels in from the sun. Filled with, reflecting, or emitting much light Show The absence of light Something that is expected is not there A flat piece of glass which reflects light, so that when you look at it you can see yourself reflected in it. When light from an object is reflected by a surface, it changes direction and doesn't pass through it. Something that reflects light Some light passes through it, but the light is scattered, so you can't see clearly through it. Light completely passes through and you can clearly through it. Cannot be seen through and does not allow light to pass through it. Formed when light is blocked by an opaque object To emit light means to produce it	 Explain that we need light to see things, and that dark is the absence of light Investigate reflection, identify reflective materials and select the most reflective material for a purpose why mirrors are good reflectors, use mirrors to reflect light onto different objects and explain how mirrors work when carrying out different tasks Recognise the benefits and dangers of the sun and describe ways to protect our eyes from the sun Explain how light travels, sort different materials according to whether they are opaque, transparent or translucent Investigate shadows: how they are formed and how they change shape and size
see Rays of light fire stars fight Shadow		Key misconceptions The moon is a source of light. Children learn that the moon is not a source of light and that the moon reflects the suns light and appears lit up. Key skills - working scientifically Asking questions, designing a fair test, investigating and answering questions, observing, reporting and drawing conclusions.
Key scientists		What will I be learning next?
by reflecting car headlights.		Children will explore more about the way that light behaves, including light sources, reflection and shadows talking about what happens and making predictions. They will extend their experience of light by looking a range of phenomena including rainbows, colours on soap bubbles, objects looking bent in water and coloured filters.