ד	opic: Light	Year: 3		Strand: Physics
	What should I alre	ady know?		Vocabulary
Observe and describe weather associated with the seasons and how day length varies			angle	the direction from which you look at something
YI Materials that are shiny reflect light and		bright	a colour that is strong and noticea- ble, and not dark	
	light sources—YI Mater		chemical reactions	a process that involves changes in the structure of something
	t will I know by the end of the unit?	dark	the absence of light	
What is a light source?	A light source is something that emits light (burning, electricity or chemical		dim	light that is not bright
	reactions) Burning light sources include the Sun, flames from a fire and stars. We must never look at the sun and should wear sunglasses to protect our eyes. Electric lights include lamps, car head- lights and street light.	electrici- ty	a form of energy that can be carried by wires and is used for heating and lighting, and provides power for ma- chines	
		emits	to emit a sound or light means to pr. duce it	
		light	a brightness that lets you see thing	
	Lights that are caused by chemical re- actions are much less common. This happens when different chemicals react and light is a product of that reaction. Examples can include glow sticks and fire flies.	mirror	a flat piece of glass which reflects light , so that when you look at it you can see yourself reflected in it	
		орадие	if an object or substance is opaque , you cannot see through it	
Why do we reed light ?	We need light so that we are able to see in the dark . This is because the dark is the absence of light .	product	something that is produced	
		reflects	sent back from the surface and not pass through it	
	The Sun and stars always give us light but we can only see the stars when it is dark . At night time we cannot see the Sun's light as the Earth turns and our part of the Earth is not lit up by the Sun at night.	shadow	a dark shape on a surface that is made when something stands betwee. a light and the surface	
			source	where something comes from
		surface	the flat top part of something or the outside of it	
	When we are driving, s lights or street light s		translu- cent	if a material is translucent , some light can pass through it
What are not sources of light ?	The Moon is not a sou though we can see it This is because the S on the surface of the appear as though the Shiny things are not appear to be sources are bright .	in the dark . Sun's light reflects Moon making it Moon emits light . light sources - they	transpar- ent	if an object or substance is transpa . ent , you can see through it
How Loes L ight	Light travels in strai When light is blocked ject, a dark shadow i	by an opaque ob-		

How are shadows formed?	When light is blocked by an opaque object, a dark shadow is formed. Opaque material block light so we can't see through it.	
Rays of light	When light is shone onto a transparent object, the light travels through it so we can see through it and it makes a very faint shadow .	
	When light is shone onto a translucent object, some of the light travels through it, we can see bright light sources through it and it makes a fairly dark shadow :	
	The size of a shadow changes as the light source moves. The further away the light source is, the smaller the shadow is. The closer the source of the light, the bigger the shadow.	