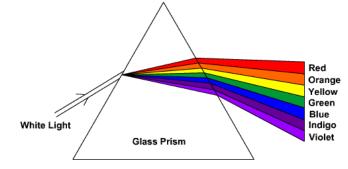
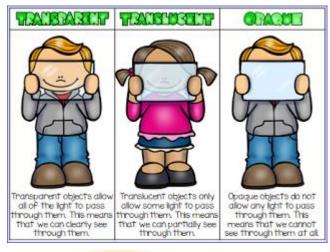
## Knowledge Organiser Year 3 Science: Light and shadow

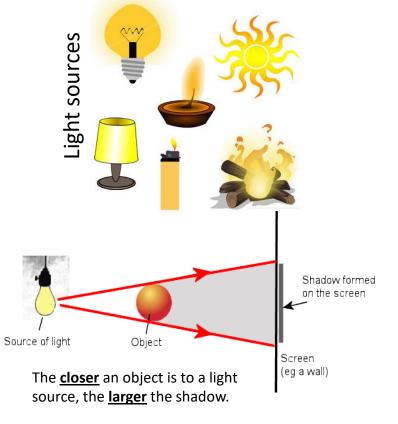
Concept: Energy

Key Vocabulary		
Light source	An object that produces its own light (e.g. sun, fire).	
Reflection	When a light hits a surface and 'bounces' off.	
Refraction	When light passes through a different object and its direction changes.	
Opaque	An object which does not allow light to pass through it (e.g. wood).	
Translucent	An object which allows some light to pass through it. It may be possible to see some unclear images through the object (e.g. tissue paper).	
Transparent	An object which allows light to pass through it so that objects behind it can be easily seen (e.g. glass).	
Spectrum	A range of colours caused when white light is refracted. A rainbow shows a spectrum of colours.	
Rainbow	An arch of colour caused by the refraction of light on water droplets in the air, usually rain (Red, Orange, Yellow, Green, Blue, Indigo, Violet).	
Prism	A solid 3D shape where two end faces are similar and parallel.	
Shadow	A dark area or shape caused by the blockage of light.	



When white light passes through a glass prism, it is refracted. The light changes direction and is then dispersed (spread out) as it exits the prism. Depending on the shape of the prism and the angle of the light, we can often see the spectrum of colours.





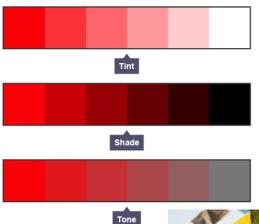
## Knowledge Organiser Year 3 Art: Drawing with Matisse

## **Concept: Interpretation**

Key Vocabulary		
Colour	Colour is used to describe the way an object reflects light. E.g. A red object reflects red light.	
Collage	A piece of art made by sticking layers of materials onto a backing.	
Composition	Composition in art refers to the arrangement of elements within a piece of art.	
Interpretation	When you interpret a piece of art, you decide upon or explain the meaning of it.	
Mood	The mood of a piece of art is the atmosphere it creates or how It makes you feel.	
Observation	Observational art is when you create a piece of art based on what you can see.	
Shade	A shade of a colour is created when black is added to darken the colour.	
Tint	A tint of a colour is created when white is added to lighten the colour.	
Tone	A tone of a colour is created when grey is added.	



**The Sciff (La Yole)** Pierre-Auguste Renoir (1875)



Sorrows of the King Henri Matisse (1952)

For his collages, Matisse would create coloured paper by painting on white sheets. Once dry, he would cut objects out freehand. He would then arrange the elements to create his final composition.



Edvard Munch created 4 versions of his painting The Scream. Notice how the colours change slightly. This affects the mood created in the picture.

