

Colour Unit Review

1. Complete these tables to show the primary colours of light and how they produce the secondary colours of light.

Primary colours of light

Primary	+	Primary	=	Secondary

2. What colours are produced when white light is shone through a prism? _____
3. Explain what happens when we see a rainbow.
- _____
- _____
- _____
4. What are the two types of colour blindness? _____
5. What is the name of the specialized cells on the retina that detect colour? _____
6. Complete the following statements using the terms *reflection* or *refraction*.
- a) You can see yourself in a mirror because of the _____ of light.
- b) A prism can be used to split light into its colours because it causes _____ of the light.
- c) When an object in water appears to bend, this is due to the _____ of light as it passes through a different medium or substance.
- d) When an object appears red, this is due to the _____ of the red light from the object.
7. What are the colours of the visible light spectrum in order.
- _____

Name _____

8. Based on what you have learned about colour, can you infer why the sky is blue and a sunset is red? You may have to do some research to answer this question.

9. a) When you shine a white light through a blue filter onto a red tomato, what colour will the tomato appear to be? _____
- b) A yellow car will absorb _____ light and reflect _____ & _____ light.
- c) Cyan shirts will absorb _____ light and reflect _____ & _____ light.
- d) Green leaves will absorb _____ & _____ light and reflect _____ light.
- e) A magenta binder will absorb _____ light and reflect _____ & _____ light.
- f) Black hoodies will absorb _____, _____, _____ light and reflect _____ light.

10. Complete the following to show your understanding of how the eye works to see images and colour.

Light hits your eye when you open your _____. Light enters into your eye through your _____. The _____ adjusts the size of the _____ depending on how bright your environment is. Light then passes through a _____. The shape of this is called a _____. This lens is adjusted by the _____.

Once the light passes through the lens it focuses an image to the back of the eye called the _____. This captures the image and it then sends a signal up the _____ to the brain.