Colour Vision

- This simulation enables you to see how our brains process colour.

- RGB Bulbs
  - Start by selecting the *RGB Bulbs*. Switch all three torches on.
  - You will see that the brain processes this as white light. This is because white light is made up of a spectrum of visible colours (colours of the rainbow).
- Single Bulb
  - Now go back and click on *Single Bulb*. In this simulation you can choose the colour of the torch's light or you can choose for the torch to give out white light. Select the white light torch by clicking the left-hand bulb icon above the torch.
  - Then switch the filter on. You can choose what colour you'd like the filter to be.
  - You will see that the colour of the filter determines what light is visible to the eye.
    - If we take yellow as an example:
      - A yellow filter only lets the yellow part of the visible light spectrum through.
      - The other colours of the rainbow (the visible spectrum) are absorbed so can't be seen by the eye because they haven't been reflected.

For more information about light, there is some BBC Bitesize guides on *Light and Dark*. Click here to access them.