**Pulse-OX:**

**Specific learning goals**

Students will be able to:

1. Recall that the pulse ox device can measure both blood oxygen levels and pulse.
2. Correctly recall the correlation between oxygen content and blood color.
3. Explain what spectral information is collected and how an inference of blood oxygen content is made from this.
4. Explain why both red and infrared light is used
5. Create a map of the pH conditions and the use of red/green light in the bromothymol blue experiment to the color change and oxygenation of blood.
6. Recognize that the pulse ox device measure the ration of oxygenated hemoglobin to non-oxygenated and not total oxygen content.