**7P3 Waves**

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| Year 7: Physics - Waves | Intro to light | I can describe the properties of light. |  |
| I can draw ray diagrams correctly. |  |
| I can use the words transparent, translucent and opaque to describe materials. |  |
| Sound | I can describe how sound waves are transmitted |  |
| I can describe the relationship between the volume of a sound and the amplitude of the sound wave. |  |
| I can describe the relationship between the pitch of a sound and the frequency of the sound wave. |  |
| Seeing and hearing | I can describe the structure of the eye. |  |
| I can describe the structure of the ear. |  |
| I can explain how eyes and ears work. |  |
| Colours | I can describe what white light is made up of. |  |
| I can explain the appearance of coloured objects. |  |
| I can describe the effect of mixing coloured light. |  |
| Infrared and ultrasound | I can describe the types of electromagnetic radiation and sound which humans cannot see and hear. |  |
| I can describe some uses of infrared. |  |
| I can explain how bats and whales use ultrasound for echolocation. |  |
| Sound vs light | I can compare how sound and light waves travel. |  |
| I can compare the wave properties of sound and light. |  |
| I can compare how sound and light are detected and used. |  |