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| **Lesson 1** | **Lesson 2** | **Lesson 3** | **Lesson 4** |
| **Learning Objectives** | | |  |
| I can explain that light travels in straight lines from light sources to our eyes, and from light sources to objects and then to our eyes. | I can understand how mirrors reflect light, and how they can help us see objects. | I can investigate how refraction changes the direction in which light travels.  I can investigate how a prism changes a ray of light to show the spectrum. | I can investigate how light enables us to see colours. |
| **Knowledge Goals**  That children can demonstrate that light travels in a straight line.  Are able to create a model to show how light travels from a light source to our eyes, or to an object and then our eyes.  Explain how we see things. | **Knowledge Goals**  Children can explain how light is reflected.  Measure the angles of incidence and reflection.  **Scientific Skills:**  Children can use their understanding of reflection to create a working periscope.  Explain how the periscope allows them to see objects they would not usually be able to see. | **Knowledge Goals**  Children can understand how light is refracted and are beginning to  understand how a prism affects a ray of light.  Are able to explain what this tells us about the visible spectrum.  Describe what Isaac Newton discovered about light.  Make a colour wheel and explain what it shows about light.  **Scientific Skills:**  Talk about how scientific ideas have developed over time | **Knowledge Goals**  Explain what Isaac Newton discovered about colour.  Children can investigate and understand how light enables us to see colours.  **Scientific Skills:**  Write a report about their findings that includes a conclusion as well as presenting their data in the appropriate manner. |