

## Science – Y8 Term 5

### What are we learning this half term?

This half term students will start to learn about **Light**. They will begin by comparing the transmission of light through different materials. We will then learn about the properties of reflected images and the law of reflection; why light waves experience refraction when passing between different mediums; how the human eye works and some of the problems we can develop with eyesight. Finally, we will look at the place of light waves in the wider electromagnetic spectrum.

### Resources you can use at home

BBC Bitesize

Waves: <https://www.bbc.co.uk/bitesize/topics/zw982hv>

### Optional home learning tasks

Use Look, Cover, Write, Check to learn keywords and definitions from their knowledge organisers.

Use mind mapping techniques or create question and answer flashcards to learn sections of their knowledge organisers.



Light Waves Task:

1. Research and write a fact file on Sir Isaac Newton. What was his occupation? When did he live? What was he known for? What did he invent that **uses** light? What did he **discover** about white light? What is a Newton's disc? Research and make the disc. Explain what happens and why.
2. Use the terms **refraction**, **dispersion** and **reflection** to explain how a rainbow is formed.
3. Use what we have learnt so far and a little bit of research to explain how **bioluminescence** helps some animals to survive.

Seneca Learning. com– Students can create a free account to record their progress. They then need to add Science KS3 to their course list.

Light waves: <https://app.senecalearning.com/classroom/course/419c7523-d408-4bc7-9b96-f7f12abdacae/section/39d5b0ca-bd96-4372-aafd-2e10ededeb4d/session>

Visit your local library and take out the Horrible Science Book *Frightening Light*