

YEAR 9

Independent learning to be completed during school closure

Science 4th May – 15th May

Over the course of a fortnight you would have 5 Science lessons. Please spend a minimum of 5 hours on the mini-project detailed below.

Light and Sound

Watch these videos: <https://www.youtube.com/watch?v=hjKme3ci8W0>
<https://www.youtube.com/watch?v=aWieHpsZ7ik>

Task	Description
1	Explain: <ul style="list-style-type: none">· How do we see things?· The formation of shadows· Draw a diagram of a pinhole camera and explain how pinhole cameras suggest that light travels in straight lines.
2	Define 'reflection' and explain in your own words how a periscope could help you see over a wall.
3	Refraction and dispersion effects: Write all the factors that affect the way light travels through different materials.
4	Write a simple description of how sound is made
5	Write a description and draw a picture examples of musical instruments labelled appropriately stating how sound travels
6	Research the uses of sound in medical practice and marine studies
7	Make a glossary of the keywords from this topic. A glossary is a detailed list of keywords and their meanings or descriptions.
8	Compare and contrast light and sound.

If you require further information please email:

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