**2.2 Science Task 4 Shining Light Through Lenses**

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Learning Intentions:

* Name two types of lenses,
* State 5 uses of lenses
* State lenses used to correct vision problems,
* State the affect of changing thickness of a lens.

**Task 1**

Read the ‘**Light Through Lenses**’ pages **58 & 59** which talk about different lenses and their uses. Once you have read these pages, answer the questions below.

1. Draw a diagram of a convex lens. Draw lines on the diagram to show how beams of light are affected as they shine through it.
2. Draw a diagram of a concave lens. Draw lines on the diagram to show how beams of light are affected as they shine through it.
3. Which type of lens would you use in a magnifying glass?
4. When was the first known use of eye glasses?
5. When someone is short sighted the focal point is behind the retina and has to be moved forward. Which lens would be used to correct this?
6. What will happen when the thickness of a convex lens is increased?
7. When someone is long sighted, the focal point falls before the retina. Which lens could be used to spread the light to ensure the focal point falls on the retina?
8. Microscopes and telescopes also use lenses. Give 5 other uses of lenses.