



Name: Form:

Based on pages 18 and 19 of *How we see things*

Looking at lenses

Try this...

1. Bend a paperclip as shown in Diagram 1.

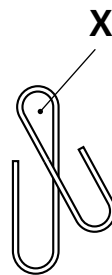


Diagram 1

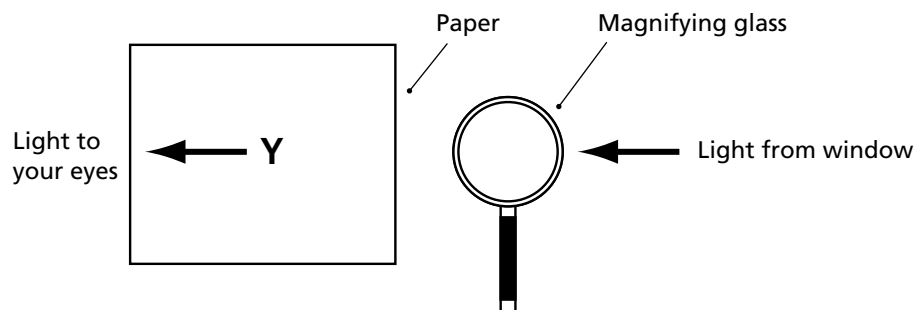
2. Put a drop of water in the space labelled with an X.
3. Hold the paperclip over your arm and lower it while looking through the water droplet. Move the paperclip so that your water lens is lowered over a hair on your arm. Move the water lens until the hair comes into focus.
4. How does the view of the hair through the lens compare with how the hair looks without the lens?



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5. Hold a magnifying glass up to a window and put a piece of paper behind it, as Diagram 2 shows.

Diagram 2



6. Look at the piece of paper and move the magnifying glass until a clear picture (image) is focused at point Y.
7. How does the picture (image) differ from the view that you see when you look out of the window?



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8. Repeat step 6 with lenses which have different thicknesses. What do you find?



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