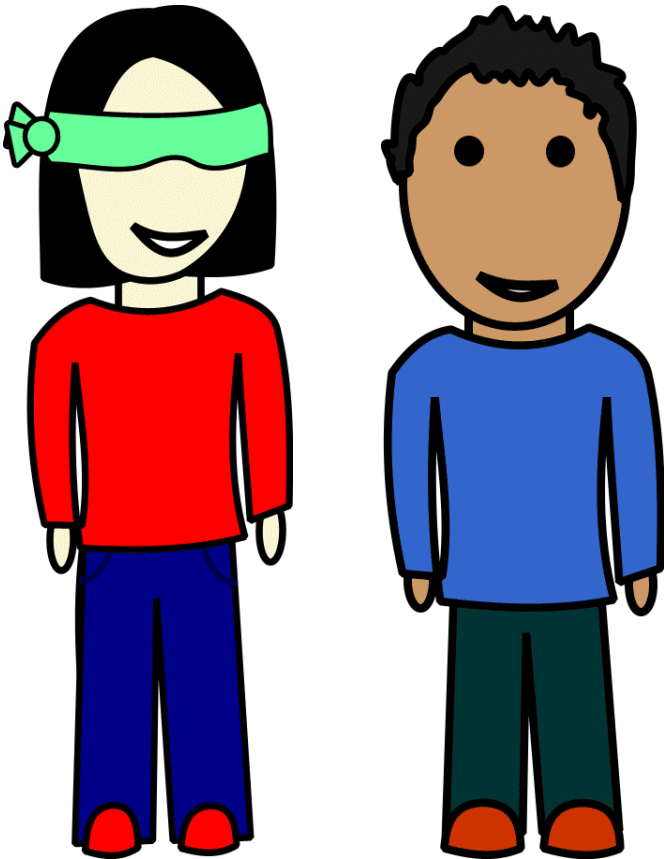


## Unit 17: Global eye



# Learnanywhere

## Why are eyes important?



Get into pairs of one blindfolded person, and one who can see.

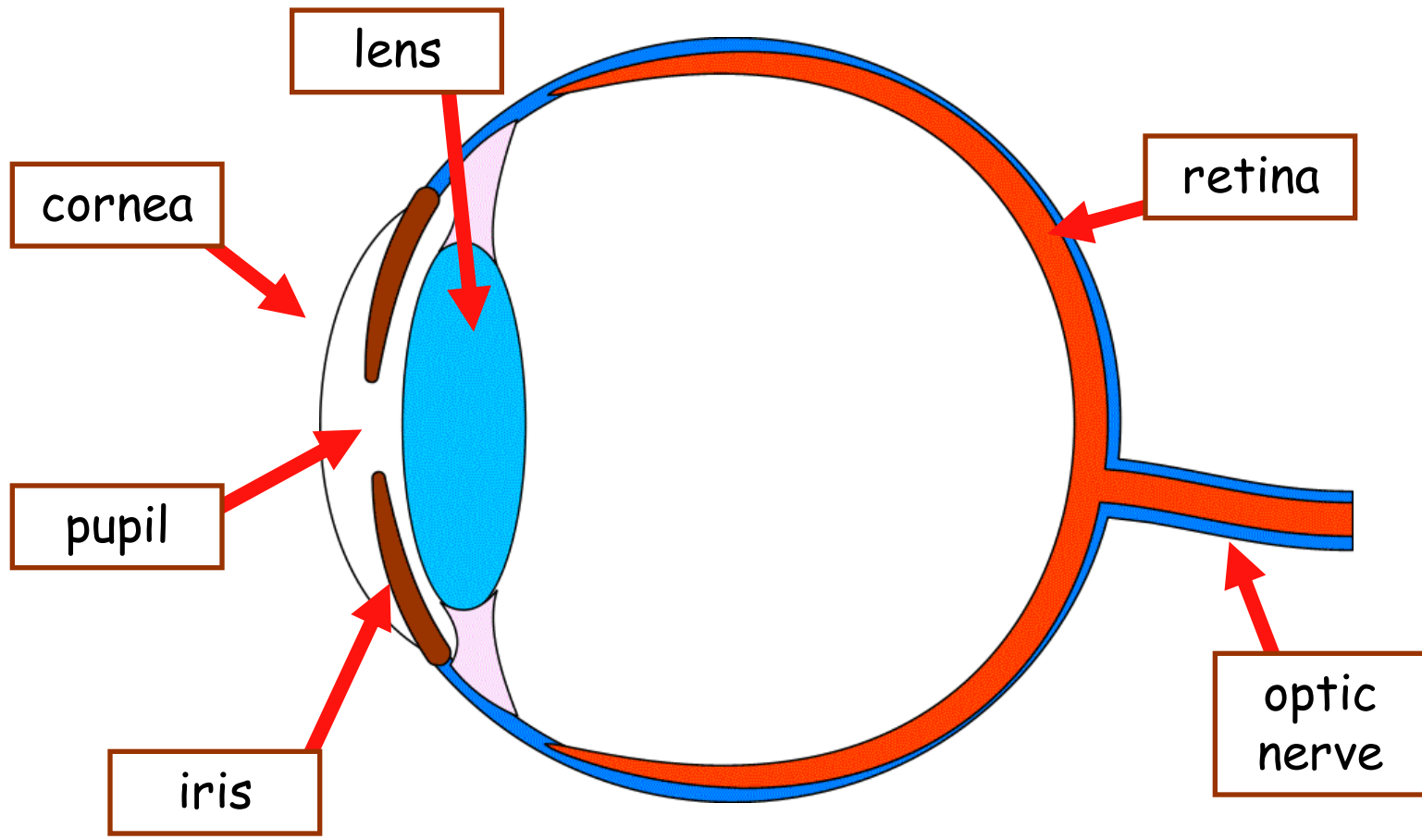
The person who can see has to instruct the other person on how to avoid bumping into things as he or she walks round the classroom.

Then swap places and try again.

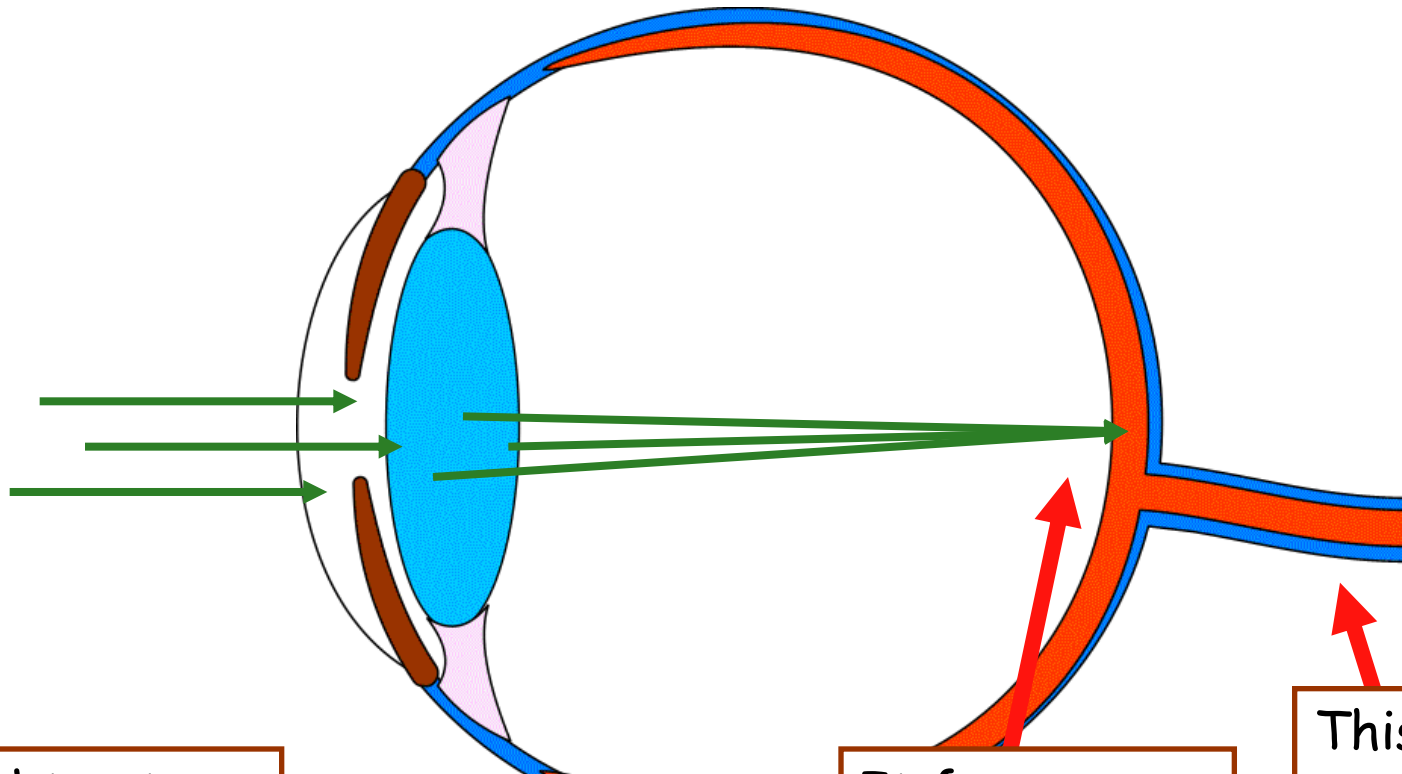
**How does it feel to be unable to see?**

**What problems does it cause?**

How does the eye work?



How does the eye work?



Light enters through the pupil

It is focused by the lens

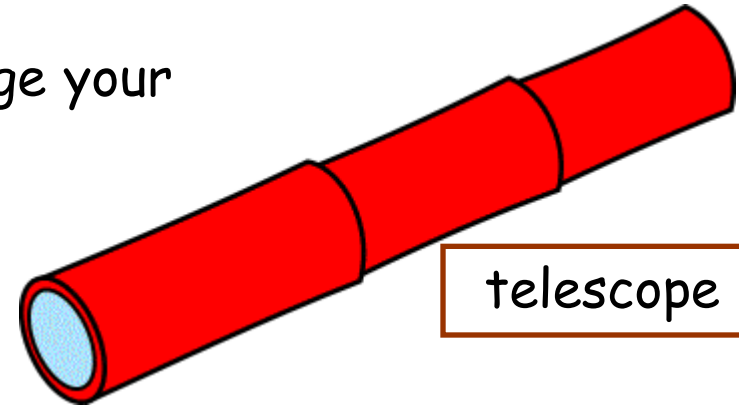
It forms an image on the retina

This image is transported to the brain by the optic nerve

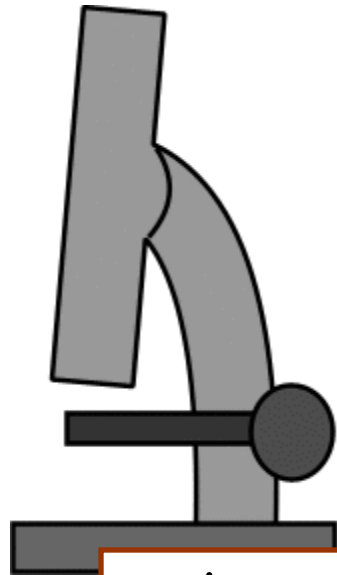
How can sight be changed?

Try using different equipment to change your sight in different ways.

Write down what each object does.



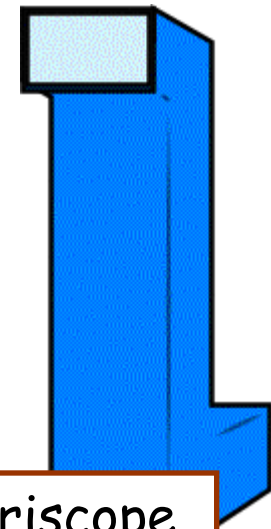
telescope



microscope



magnifying  
glass



periscope

How can sight be changed?

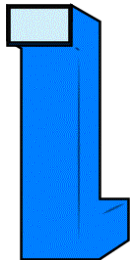
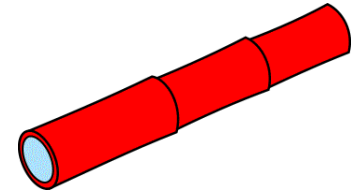
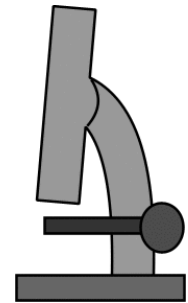
Which item...

...makes small things look a little bit bigger?

...makes far away things look nearer?

...makes tiny things look much bigger?

...makes things that are higher up look like they are at face level?



What do we recycle at home?

Conduct a survey of your class to find out what sort of things people recycle. Use a tally chart like the one below:

Item	Number of people
Glass	
Plastic	
Newspaper	
Tins	
Shoes	
Clothes	
Spectacles	

What work does an optician do?



Opticians test people's eyes to find out if they need to wear spectacles. They work out the correct type of spectacles that the person needs, and make sure that they fit correctly.

You may want to visit an optician. You could ask them questions about old spectacles, like:

**Do you collect people's old spectacles?**

**Do you recycle them?**

**Do you know which countries they go to?**



## What is the African countryside like?

Many countries in Africa have very dry weather, making it difficult to grow crops to earn money.

There are also problems with transport, as many people can't afford to buy cars or use public transport.



As a result, many African people don't have access to a doctor, dentist or optician, or they are unable to afford to go.

**What problems do you think this causes?**

How do children in African countries get spectacles?

Organisations like Vision Aid Overseas collect spectacles that people no longer want, and send them to countries in Africa for people there to use.



They also provide opticians who can advise people on the right glasses to use, and take care of any other sight problems they might have.

**How do you think supplying people with spectacles could improve their life?**

Design a poster to encourage people to donate their used spectacles to a charitable organisation