



Question 29 - Communication

a. i. retina.

ii. ~~A~~ A - to help protect the pupil.

B - to help with the movement of the lens and help with the amount of light getting in.

bi) need to look specifically at the structures used by the different animals, then assess when, how and why they use them by watching and tracing their movements.

bii) By doing numerous experiments and different locations and animals.

C.

Technology can be used in many different ways to overcome the effects of cataracts. They could be using machines to properly fix glasses after the cataract operation so the person can see after they overcome the cataracts.

The use of eye exercise machines to help the person learn to focus properly again without use of glasses or contact lenses.

The performance of technology to reproduce near perfect cataract operations.

d) We had to project a light through a lens and mark where it finished, then by using different size lenses to project the light, mark it again and determine what effect lenses have on light projection and clarity.

The conclusion drawn was that the light was shot further by a wider lens but less clear at the end of the beam.

e) hearing aid is used to help people who have lost their hearing overtime. It is very effective when implemented but sometimes may not work on everyone.

The cochlea device (bionic ear) is used for people who have been deaf since birth. It is very effective in enabling people to hear for the first time.