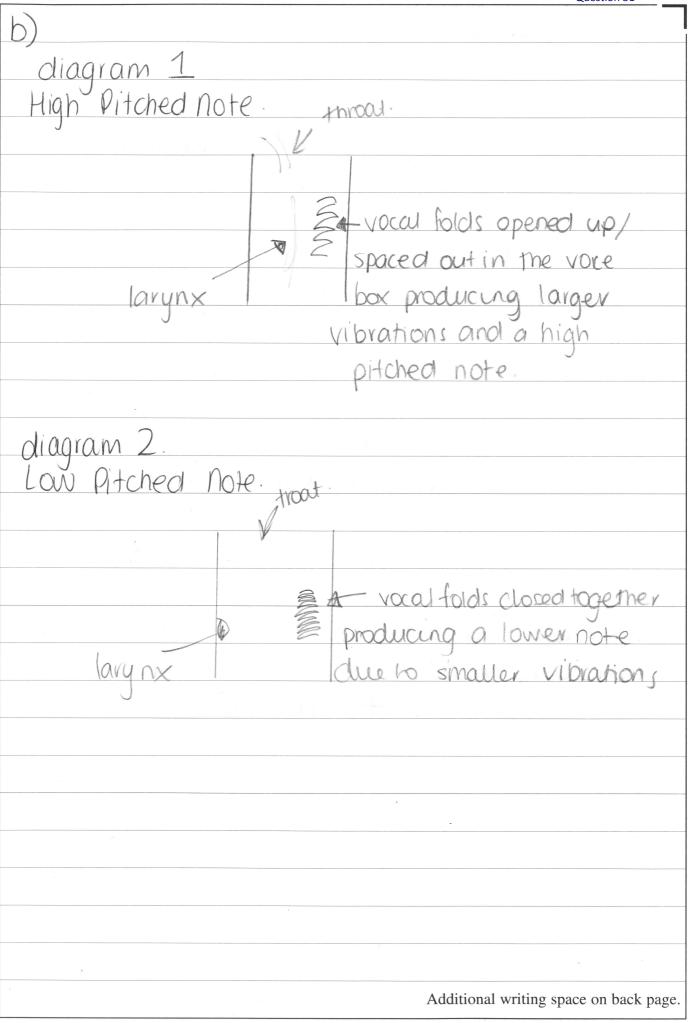
| Start hara | Question 31 |
|---|--|
| Start here. | |
| organism | structure to detect vibrations. |
| mammals | - detect vibrations through the |
| | ear drum in the ear, which is then |
| | sent through Renauditory nerve to |
| | be interpreted by me brain |
| | -some mammous one known to |
| • ; (•) | duted vibrations through Her stomach |
| *************************************** | It Pley are low laying mammair. |
| Fish | - Have vibration receptors down near negitis. Their sides no detect vibrations |
| | Their sides no detect vibrations |
| | as They travel through the water. |
| | - sound is priced by up by vibrations |
| | in me water allowing fish to gain |
| | understanding of what is around |
| · · · · · · · · · · · · · · · · · · · | Mem. |
| Insects. | - Use vibrations a lot in communication |
| | - different insects have dulerent |
| | structures most pick up vibrations |
| | - Grasshoppers produce vibration's |
| | with her hindlegs ond pick up |
| | Vibrahons in Rei stomach |
| | - worms use vibrations detected |
| · · · · · · · · · · · · · · · · · · · | Though senses on her storrache |
| | to sifeel New way Trough Re |
| , | 5011 |
| | |



C.(i) woonynonoon retina

- (ii) The structure of cones varies depending on New Location in the network for different creas of the network negure different levels of light to be interpreted. As the light is refracted in the eye the cones picking the colour and light signals in order to make a clear picture. They are more consentrated at the back of the eye for that is where the most light gets refracted and so more one needed there to create the best pickine possible.
- (ii) Rhodospsin one found in rock ear and one incredit bally important in the detection of light and night. Rhodopsin split in the rock, receiving the most light possible the quickest moving that and associated when detecting images at night. Rockers when detecting images at night. Rockers doesn't all chything associated with colour, it purely fourse on light. Rockers in found in every one of the 125 million rock inside the

| Question 31 |
|--|
| Start here. |
| d |
| (i) cause one: Ne fall damaged he sechon |
| of the brain associated with sight |
| and so not information to being processed |
| in that one, leading to no action |
| potential by the occipital lobe being damaged, |
| no messages from mout onea would be |
| Seen. |
| cause 2: le fall of the mammal damaged |
| le medula oblogata, again limiting |
| The perception of information interpreted |
| by he animalin most negron. Oue to |
| having no comprehension of images |
| or sight, an action potential negarding |
| est mose mings could not be cleveloped. |
| |
| (11) The condution could greatly change he |
| behaviour of the mammal. It would |
| change her visual understanding of |
| everyming arounded, leading it to become |
| more culty to injurie or Rurt Memselves |
| due for ney cant associatelle image with |
| humans aboallect new behaviour, |
| Tune one diseanes such as dementia mout |
| TWING ON THE SOUNT OF THE STATE |

makes that onea of he brain deterorate leading to nem howing no ne wognistion of people, even Nerown Pace. The danger in mammals howing no perception of hout it could no longer be left wouldnt interpret he information hey see . It can Godho disolusionment lungs seem bigger man Rey one, polenticulty higer nokof neinning Further Unjuring Understanding of how pebrain and eye develops depth perception has lead to the divelopment of 3D glasses. Depth perception where the each eye picks up a event image no mes to create a clear pickne of mounds. It can be done mough previous Objects, ability of associate an it mage and, 1 le combination 20110 01105 how even andly Me one objet

Additional writing space on back page.

10 unchediba

| Question 31 |
|---|
| be detected Mough mammals |
| be detected though manmals Obtaining two eyes on he front of her |
| head. By understanding his concept, |
| he 3D glasses has been created. Et |
| Due to the dullerent coloured lenses, it |
| forces he eye to interpret information |
| dillerent information from he same |
| mage and in hun, producing a mage |
| with depth, or in other words a 30 picture. |
| Ne use of the coloures of red and blue were |
| developed due to under standing of |
| He eye aswell for they one how colours |
| most one neadly pided to up by |
| le eye or aquicle glance. |
| Understanding of housing and sound |
| Understanding of hearing and sound has lead to he development of |
| summer sound. Sound shaddows |
| one ones Paod amound our ears that we |
| may not pick up sound he most |
| electivity for it it is overshood dowed |
| or protected by our head. No is |
| ellective in providing us with an |
| understanding of where sound is |
| commung from and how loud or |
| soft it may be. It is often he neason |
| Why trumouns hurn heir hear a sound, |
| You may ask for an extra Writing Booklet if you need more space. |
| |

| Start here. |
|--|
| for May one herring to allow her |
| for they one herning to allow their eag ears to pick up sound outside the |
| confindment of resonic shodolow. |
| Though he understanding of |
| sonic shaddow, surround soura has |
| been created. In surround Sound, |
| Me sound waves come formall |
| around he individual, timutell |
| Liniting the chance of a sonic |
| shaddow and complety engulling |
| Me person with sound mout to Kin |
| Chonneled Mough to he unner ear |
| ond eventually re optionerve |
| where it is sent to be unterpreted |
| by he brain. By he person not having to move to hear the sound, it |
| noting to move to hear the sound, of |
| creates he belling of being night |
| The cumongst the mage, micking the brain in beleiving reported is |
| de brain on belliving rejoind is |
| around you. |
| Mough he development of 3D |
| glosses and sumound sound he |
| brain is mileed into eneating |
| of howour eyes and lars work. |
| of record of the |

| Though the andences and one able |
|---|
| Mongh Mus, andleness and one able ho get animage mat seems far more neabtic and immediate |
| more realetic and unmodicate |
| man ever before. |
| |
| • |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| Q-1 |
| |
| |
| |
| |
| |
| |
| |
| |
| • |
| Additional writing space on back page. |