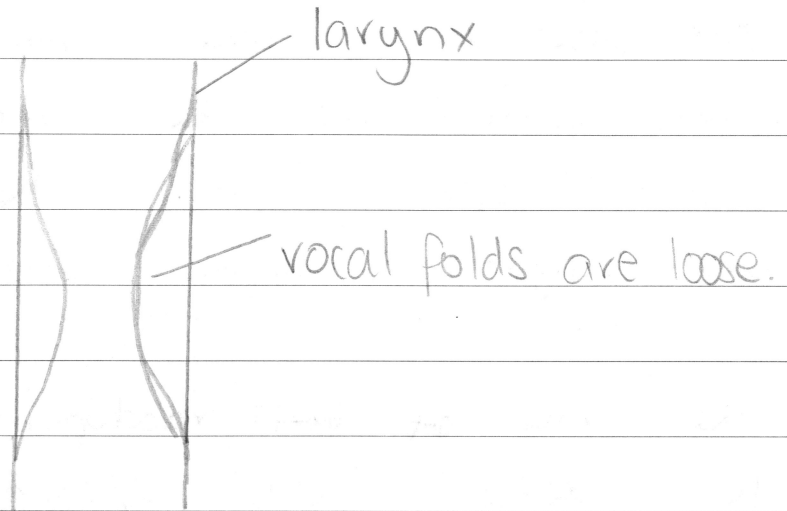
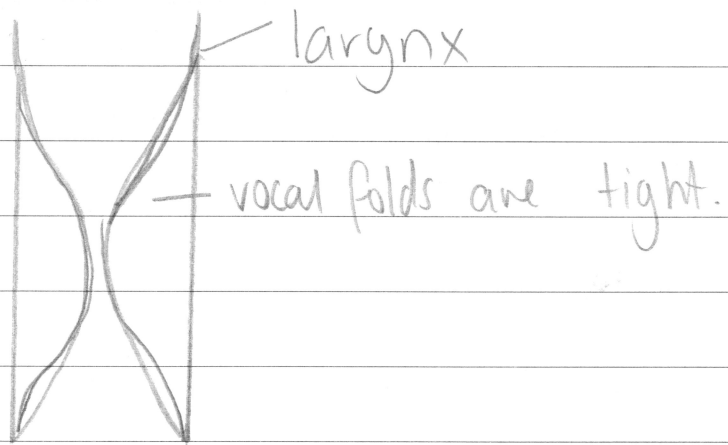


B)

HIGH PITCH



LOW PITCH



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C) (I) Rods

(II) The structure of cones varies depending on their location in the retina as certain spots on the retina receive more light than others.

(III) The role of (rod) rhodopsin in rods is to detect and absorb the light and change it into shadows of black & white.

You may ask for an extra Writing Booklet if you need more space.

Start here.

D)(I) A possible cause for the lack of action potentials in region X is that the brain may have hit the skull and possibly bruised or punctured the brain. Another possible cause for the lack of action potentials in region X is that the brain could be swelling and the pressure on the skull possibly could stop the brain from sending/receiving information.

(II) This condition could affect the behaviour of the (~~mammal~~) mammal as the ~~the~~ sight has been affected due to the fall.

e) Our understanding of the eye & the ear has led to the development of technologies such as 3D movies & surround sound systems due to our knowledge of depth perception, sound shadows & how sight & sound is received transmitted and interpreted in the brain.

As both our eyes allow depth perception due to our binocular vision, using glasses which allows our eyes to see two different images at the same time we are able to see in 3D.

Sound shadows are created due to the layout of our ear's pinna. The pinna allows the sound to be directed into our inner ear to be transmitted and interpreted by the brain. As the pinna is shaped, we hear sounds ^{clearer} which are in the direction of our pinna. To hear and feel like the audience are "at the centre of the action", speakers are

(PFO)

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placed strategically around the audience so when the pinna is directed around the room, sound can always be heard, thus the viewer is surrounded the sound.

Our understanding of the eye and the ear has led to the development of technologies such as 3D movies & surround sound systems to give the viewer a better movie experience.

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