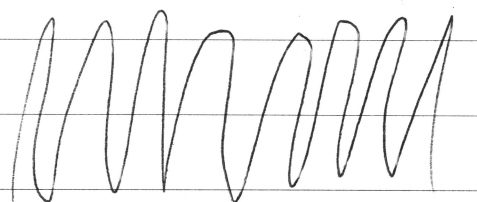
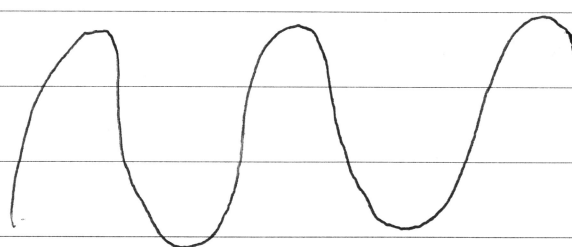


Start here. a)

INSECTS	Insects detect vibrations through tiny hairs all over their bodies.
FISH	Fish's fins in the water can detect vibrations.
MAMMALS.	Mammals have ears which allow vibrations to enter through a cone shaped ear. This then turns into sound.? pattern The sensory system allows mammals to detect vibrations.

b)

High Pitched Note.	Low pitched Note.
	
<p>A high pitched note makes waves that are closer together. The vibrations are quicker, making the noise higher.</p>	<p>A low pitched note makes waves that are further away. The vibrations are slower, making the noise lower.</p>

e) i) Line of vision.

ii) There are more cones at the back of the retina than at the front. This is to assist ~~the~~ with ~~the~~ vision and making it clearer. The cones at the back of the eye are smaller than the front. This is to help to extend the amount of peripheral vision in the eye.

~~TH~~

iii) Rodopsin helps the rods to extend the range of vision, particularly in peripheral vision. It also helps to determine colour.

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Start here.

d) i) There are many reasons as to why action potentials may not occur. A shock to the brain can severely damage it, preventing action potentials to occur. These damages can be short or long term. If damage was done to the brain due to the fall, the correct functioning will not occur in some circumstances. This is because correct functioning is altered in the brain, and what functions now occur, will seem normal.

ii) The behaviour of the mammal can change seriously. The mammal may not remember basic movements such as how to walk due to the condition. The personality of the mammal may also change, for example, increased aggression.

e) Through various scientific investigations, our understanding of the eye and ear has increased greatly, allowing us to develop various technologies such as 3D movies, which trigger specific responses. By understanding where the blind-spot in the eye is, a 3D movie can be created by the use of 2 pictures being put together. These pictures look blurry & without special 3D glasses, however, with the glasses they look almost real. This is also because of the overlapping that occurs in our sight. Our sound perception is very unique, and due to the way in which we perceive sound, an ~~"in film"~~ "in film" experience can be created. Sound is many vibrations which are funnelled into our ears, then transmitted into sound. By having different kinds of sounds around the room & in different places, the vibrations become more realistic. Depth perception in the

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eye also assists in the 3D images being realistic. These experiences are all heightened by how good ~~good~~ ~~our~~ ~~sight~~ ~~and~~ ~~sound~~ ~~is~~ ~~and~~ ~~hearing~~ is our sensory system is. The ability ~~to~~ to manipulate specific features of the human body and use them to be able to create various technologies is increasing rapidly. With further discoveries and investigating going ahead, a more involved understanding of sight and sound will become evident and future technologies will be more and more involved.

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