

Worksheet on Sounds and cochlear implants

1. Follow the link and watch these videos:

- Music with Cochlea implants, sounds good
- Trampolines, Tones & Pulses, big or small?

<https://www.switch-on-life.com/education/sounds-and-cochlear-implants/>

2. Research the topics of tonotopy and how a cochlear implant works on the Internet.

3. Answer the following questions:

Question 1: Are sound waves from low tones slow or fast vibrations?

Question 2: Which part of the cochlea is responsible for low-pitched sounds

Question 3: What characteristics should electrodes in a cochlear implant have in order to achieve the most natural hearing possible?

Question 4: Do rapid vibrations in the cochlea trigger high or low tones?

Question 5: How do you produce low tones with a CI?

4. Explain to your group how a cochlear implant works and how it must transmit sounds or sound waves to enable natural hearing.