

ListenLearn Bracelet and Aid

As they cannot process the same information and surroundings Sensory Integration Therapy is often used to, over time, expose them to different stimulus and teach them how to react to it.

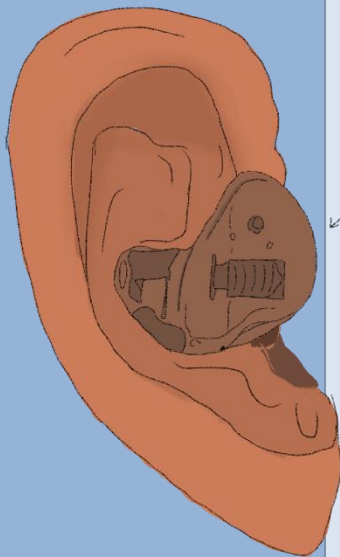
With this ListenLearn aid we can use this technique to integrate it into their daily life. As routine is important they can routinely lower the range of frequencies at the same time every day The NAME filters.

Over time, their brain can filter the over-stimulus themselves and not need any technology to aid them to feel part of society.

Autism actually affects 700,000 people in the UK. Learning disabilities should not let anyone feel left out in social situations. One in 100 children have autism and have reported that that include bright lights and loud noises can seem overwhelming and make them uncomfortable. They simply cannot process information as we can but in no way should we let this stop their incredible minds. Technology has too keep up.

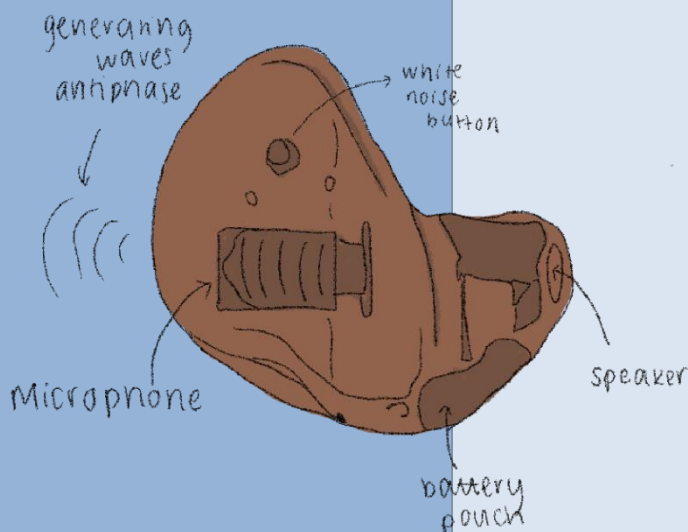
The ListenLearn aid alongside the ListenLearn bracelet aims to filter noise and potentially overwhelming noises so that they can comfortably integrate into social situations making it flexible and adjustable to each new situation they find themselves in.

We chose a sleek almost-invisible look as it is important for it not to look out of place and feel seamless wearing them. The goal is to make it feel like wearing ordinary headphones but having incredible noise filtering capabilities.



- Sleek
- Customisable
- Integrating real therapy techniques used in industry
- Rechargeable and stable
- Able to have control over all the frequencies and colours displayed
- Allows for non verbal situations
- Flexible and can easily be changed for the situation

ListenLearn Aid



ListenLearn Bracelet



1. Battery

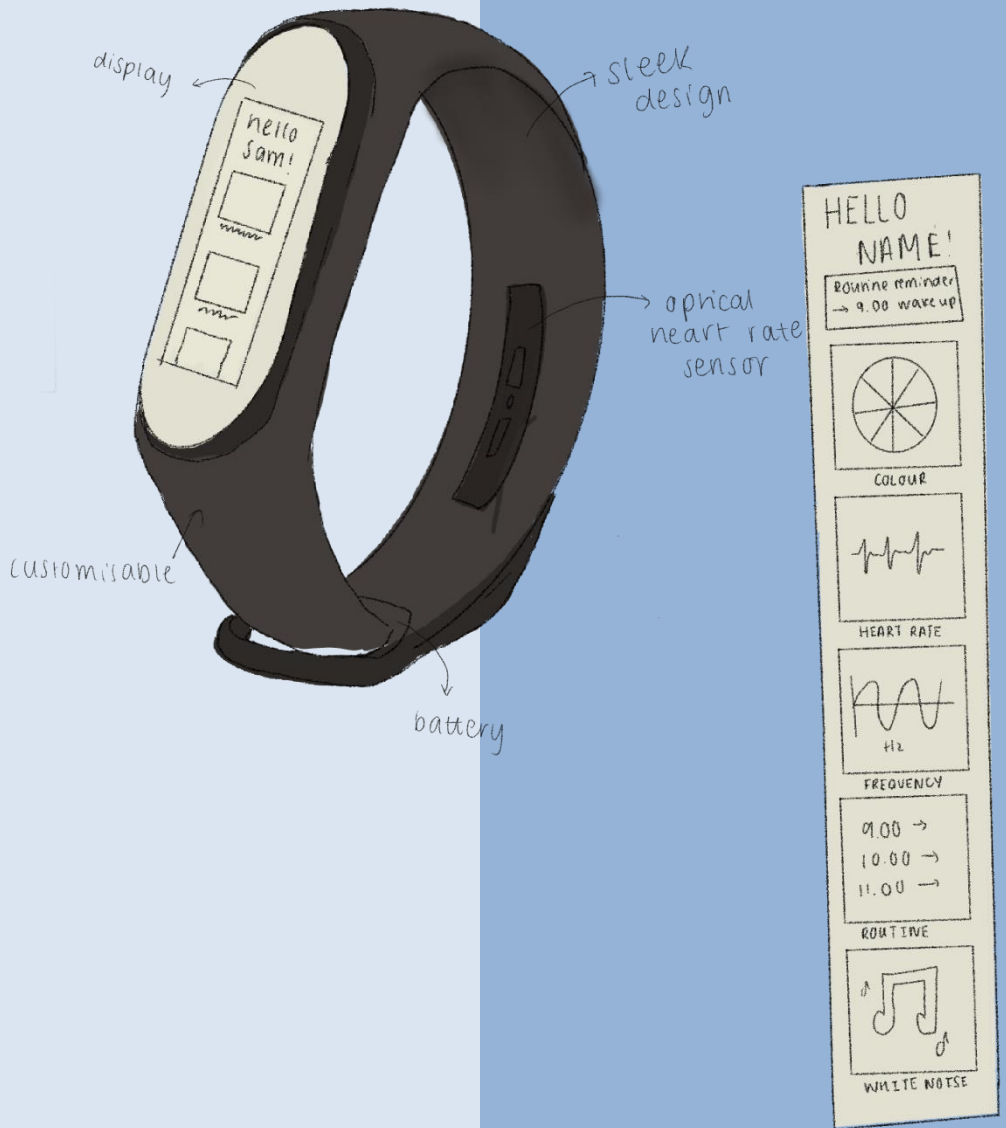
This will use lithium ion batteries and working at 125mAh which means it is able to be recharged multiple times.

2. Display

It can be set to be a certain predetermined colours to tell people around them that they are non-verbal at specific times or feel overwhelmed so they allow space. It can be hard to communicate such feelings so colours are universal and get the point across. This can also work as a routine reminder, which allows them to feel more comfortable with familiarity if they have a set routine.

3. Optical Heart rate sensor

This works seamlessly inside the arm of the bracelet so that it can indicate to the person when they are stressed and can assess the situation. They can also review they sensor at the end of each day so that they can assess in which situations they are the most not comfortable with.



1. Microphone

This picks up signals using ANC technology picking frequency vibrations from a high and low range. This will neutralise sounds that are too loud and too quiet by producing a sound wave that is 180 out of phase, using destructive interference to stop it ever making to the ear. The range of frequency can be adjusted on the INSERT NAME bracelet's display, flexible for the person's capabilities on specific days.

2. Speaker

This will relay the noise of the world to the person but in manageable frequencies so their brain can process it. If they are feeling particularly overwhelmed it can be adjusted to just play white noise to remove distractions completely

