

Connor Mahoney

March 15th, 2017

Assitive Technology

Furthermore, when understanding learning disabilities and the brain research that follows, it is significant to our learning that different types of learning disabilities are acknowledged and studied. For example, Dyslexia is widely studied and prominent in our society today, and is backed with research pertaining to the brain and it's development. The International Dyslexia Association published an article on their website titled, "Dyslexia and the Brain". This article outlines what Dyslexia is, the parts of the brain it affects, and the overall role the brain plays in Dyslexia. To begin, dyslexia is defined as a difficulty in processing the written and sound forms of language. To better understand Dyslexia, many "neuroimaging studies" have taken place to discover the anatomy of the brain and it's function among those who are dyslexic (Dyslexia and the Brain). It is noted that an advance in our studies of the brain can only help benefit those who are searching for reading programs to help them succeed. The International Dyslexia Association notes that reading involves a multitude of cognitive processes. The first is the grapheme-phoneme mapping, which combines letters with sounds to be decoded, and the second is visual word form recognition, which helps to combine words with mental images. Studies have shown that reading is supported through the left hemisphere of the brain, which is home to the occipito-temporal, the temporo-parietal, and the inferior frontal cortices. These parts of the brain change as we age, but among people who are Dyslexic, they are altered. To summarize, the role of the brain in regards to Dyslexia has been studied through anatomy, chemistry, and brain

function, and can only help the process of further decoding the best treatment for those who struggle with Dyslexia (Dyslexia and the Brain). Dyslexia is only one kind of learning disability, but it is clear that the function of the brain plays a role that can contribute to the success of a child or adult throughout their education.

References

Dyslexia and the Brain. (n.d.). Retrieved November 30, 2016, from
<https://dyslexiaida.org/dyslexia-and-the-brain-fact-sheet/>