



BrainWave Centre

Objective Measurement...
Confident Management

INFORMATION Sheet

Learning Difficulties

Learning Difficulties

Learning difficulties (LD) are categorised by a marked impairment in understanding or usage of language either written or spoken. This impairment leads to an understanding and usage which is below average for their respective developmental level.

Signs of learning difficulties include weakness in:

- listening
- spelling
- reading
- writing
- speaking
- completing mathematical tasks

Learning difficulties may also affect the ability to follow directions, retain information or correctly sequence information.

LD do not necessarily indicate an auditory, visual or motor imbalance. LD are not necessarily caused by the environment of the child. It is clear that children with LD do not show age appropriate academic progress.

What Causes Learning Difficulties?

There is no single direct cause. A variety of genetic factors, foetal development, medical issues (allergies, infections etc) and social-cultural influences can contribute to the development of LD.

Benefits of a qEEG (quantitative electroencephalograph) Diagnosis

QEEGs offer a direct, objective measure of brain wave activity from specific sites in the brain. This comprehensive evaluation of brain activity, when compared with standardised normals, can shed light on the cause or type of impairment.

How Neurofeedback can help

A computer based treatment known as neurofeedback has been shown to produce a level of improvement in most patients. Based on the results from the individual's qEEG, the neurotherapist/psychologist and the patient work together to encourage the production of more appropriate brain wave frequencies. The aim is to promote neurological activity that is closer to 'normal' values.

Neurofeedback allows the patient to remain in control of their own development, increasing self-esteem and sense of self-concept, which have remarkable implications for one's academic achievement. Improvements are achieved safely and effectively through positive reinforcement.