EFFECT OF HEMISPHERICAL BRAIN DOMINANCE ON ACADEMIC ACHIEVEMENT OF SCHOOL STUDENTS

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ABSTRACT

Brain dominance is the tendency of an individual to process information through the left hemisphere or the right hemisphere or in combination. People have different brain dominance and each hemisphere of the brain contributes to certain body functions, each person has the unique way of perceiving, interpretation and utilization of a given information. Academic achievement refers to performance outcomes of students of schools, colleges and Universities. Academic achievement is commonly measured by examination or continuous assessment and students marks or grades are considered as main indication for academic achievement. Researchers have proved that there are many differences between the two hemispheres, the left brain is better at language skills, analytical time sequence process and movement and the right brain is better at identifying shapes, copying of designs, music, reading emotions, etc. This article aims to study the hemispherical brain dominance and its relation with the academic achievement of the students. As Brain hemisphere dominance plays a significant role in scholastic achievements of students. Certain individuals posses qualities that make them double dominant. Their mode of thinking allows them to use both hemispheres equally. Individuals that display double dominance of brain that helps them to process their thoughts logically, creates intrinsic values and helps in decision making also. This stage is called whole brain dominance or integrated dominance.

Keyword - whole brain dominance, Academic achievement, left hemisphere, right brain

Introduction

The human brain is divided into two hemispheres left and right ,it is intriguing for scientist to explore how some cognitive functions tend to be dominated by one side of the brain or the other or how they are lateralized .The lateralization of brain function is referred to as tendency for some neural function of cognitive process to be specialised to one side of the brain or the other. The human brain is separated into two distinct cerebral hemispheres by medial longitudinal fissure and connected by the courts callosum. The Macro structures of the two hemispheres appear to be almost identical and different composition of neural networks allow for specialised functions that are different in each hemisphere .Each human brain develops in a different manner and tends to unique lateralization.

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Main Characteristics of the Left Brain Dominance.

Remembers names, Intellectual, Verbal response to instruction and explanation makers objective judgement, planned and structured, analytical reader, thinking and remembering, talking and writing, controls feelings, favours logical problem solving not good at interpreting body language.

Main Characteristics of Right Brain Dominance

Remembers faces, intuitive, responds to demonstrated, symbolic instructions, Synthesizing reader, imaging in thinking and remembering, prefers drawing and open ended questions, free with feelings, frequently uses metaphors.

Use of Whole Brain is the need of Hour

The current education system is not designed to prepare students for any one kind of profession. They are rarely taught to think on their own. But in today's rapidly changing world, development of any one hemisphere of Brain is not enough.

The future job and Society will require more proportion of creative and intuitive thinking and the ability to execute. So it is imperative to learn how to develop and integrate both sides of the brain and use it as a whole.

This paper also explores the cognitive processing style of the students and effect of Brain hemispheric dominance on them.

Today educators are needed to understand Brain hemisphere domination to understand the ability of their students.

Educators at the higher levels of administration get benifitted by the awareness of cognitive lateral functions and how to integrate them in their decision making as well as for training of their staff.

Researcher's have indicated that the most successful and innovative leaders integrate both left and right brain processing are more amenable to change are better able to restore energy, are more successful, are less susceptible to job burnout.

The key to integrated function and emotional intelligence. Some people use right as well as the left brain as per the existing situation and particular mission to execute. Such people are called whole brained or integrated brain dominant, thus the balanced use of brain hemispheric dominance is called whole brain dominance. Our personality is the result of the degree to which these left and right brain interact. It is very simple to identify "left brain people can be easily identified who are artistic, unpredictable and creative. But each of us draws upon specific sides of our brain for our varied daily function. Which depends on our age, education and life experiences. The determination of our character and personality depends on either of the brain side, in control of different circumstances.

Thus by understanding the henuispheric dominana of their students, teachers can have more variety in the way of their teaching and give assignments to students in order to increase their effectiveness in meeting each student's needs.

Teachers can use hemisphericity theory theory which acts as a guide for developing classroom activities for multiple congintive information process.

Conclusion - Hence by investigating hemisphveic dominance and learning styles from the aspects of curriculum, and teaching process teachers will contribute significantly in our country's education. Learning the concept of Brain hemispheris domination can be very beneficial to teachers, school administrators and the policymakers. It may also encourage teachers to improve their teaching styles to suit their students learning style and diversify methods and activities of teaching to optimize learning success of students.

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