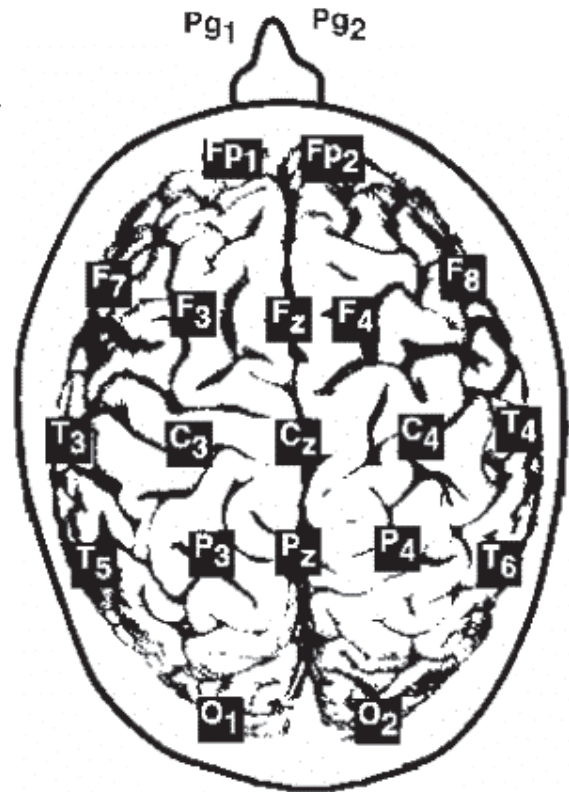


Appendix I: Toomim's Cognitive Behavior Questionnaire

Directed to Specific Brain Areas



Ten/Twenty International Brain Position Naming System

Do you easily get lost?

T6 - Right posterior temporal lobe, automatic direction memory here

Do you recognize people you have recently met about a week ago?

T6 - Right inferior mid temporal lobe. Face Fusiform Area

Do you recognize neighbor's houses? Would you note a strange car on your block?

T6 - Superior mid temporal lobe compares shapes, objects to memory

Do you like to read? If no, find out why.

Do you recognize words on a page by shape?

T4 - Right Superior mid temporal lobe compares shapes, objects to memory

If dyslexic then inferior right temporal lobe is

substituting for superior T4

Else T5. Transfers to left superior temporal lobe, Werneke's area.

Do you find reading is too much work? Is lack of understanding the problem?

T5 - Left lateral frontal lobe and left superior mid temporal lobe, Werneke's area

Do you find yourself rereading paragraphs?

Fp1, Fp2, Fp3 - left inferior frontal and left lateral frontal areas; working memory deficit. Check TOVA for impulsivity.

Do you find your spoken words are different from your intent?

T3-F7 - Superior left lateral frontal lobe, anterior superior temporal lobe. Broca's area controls speech production

Do you keep lists of things to do?

F3, F4, Fp1, and Fp2 - Lists substitute for mid term working memory.

Do you have trouble prioritizing your time?

F7 - Left anterior temporal lobe for organization

Are you often late for appointments?

F3, F7, and T5 - Logical memory retrieval and storage areas.

Do you sometimes find yourself unknowingly rereading a news column or book for a while before you realize it?

F7- T3 - Memory recall

Are you impulsive, like needing to beat the yellow traffic light?

Fp1, Fp2, Fpz, and Fz - Frontal cortex, check TOVA, and anterior cingulate gyrus

Do you often find yourself unable to stop a recurring thought?

Fpz- Fz - anterior cingulate gyrus

Are you uncomfortable sitting still?

Fpz, Fz - Anterior cingulate gyrus.

Do you ever feel guilty or ashamed?

Fp2 - Right orbital frontal gyrus

Did you bond with your mother?

Fp2 - Right orbital frontal gyrus.