



# HUMAN INTELLIGENCE



THE BIOLOGICAL ENVIRONMENTAL THEORY  
OF HUMAN INTELLIGENCE


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## Definition

- The brain's ability to deal with or try new problems by applying knowledge and logical reasoning to manipulate one's environment to decide the best course of responses to a given question or to think abstractly.
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## Importance of the study

- The primary goal of this study is to show the importance of improving intelligence that can have widespread effects, including increased cognitive skills required for thinking and problem solving, as well as in determining one's success in life ( smart and bright people).
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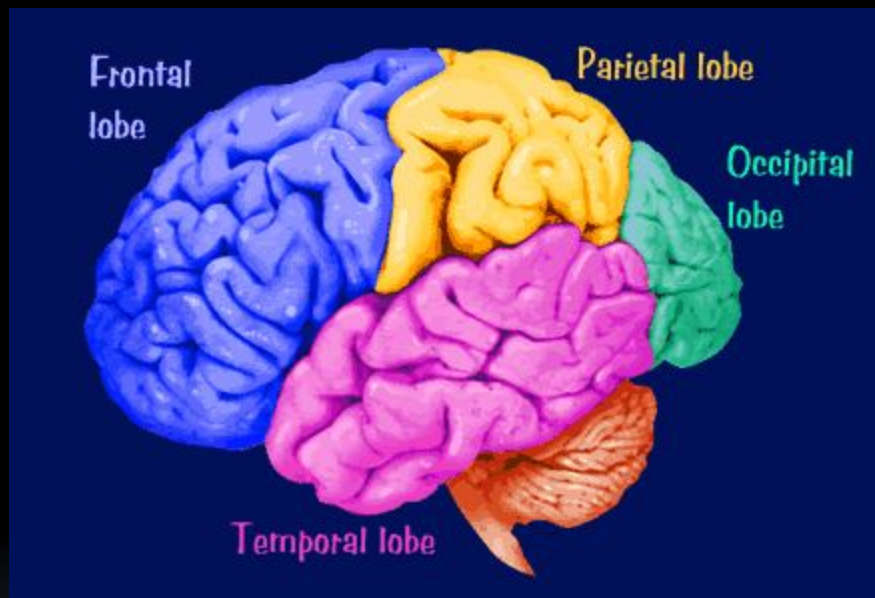
# The Fronto-Parietal Integration theory

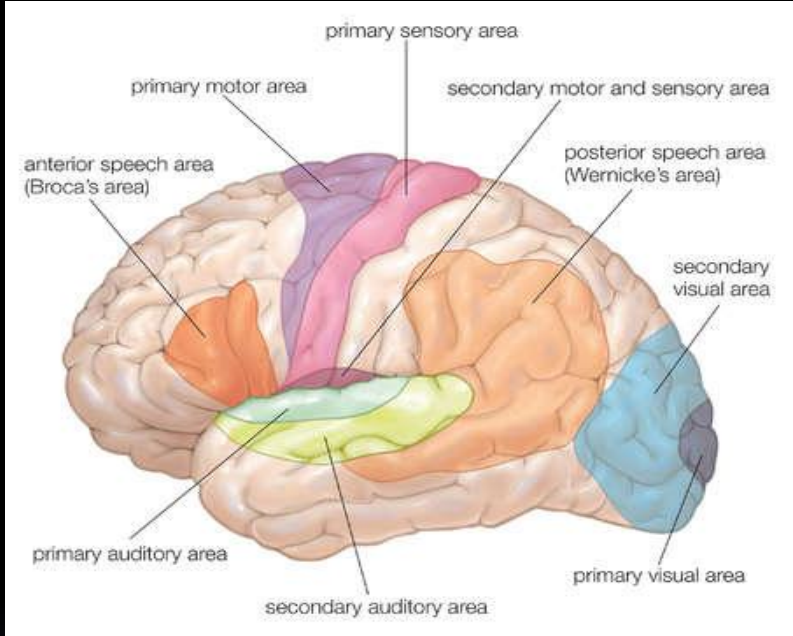
- Richard J. Haier and Rex E. Jung



## Which Brain Structures are involved in intelligence?


- 1. Frontal lobe.
- 2. Parietal lobe.
- 3. Temporal lobe.
- 4. Cerebral cortex.
- 5. Thalamus.

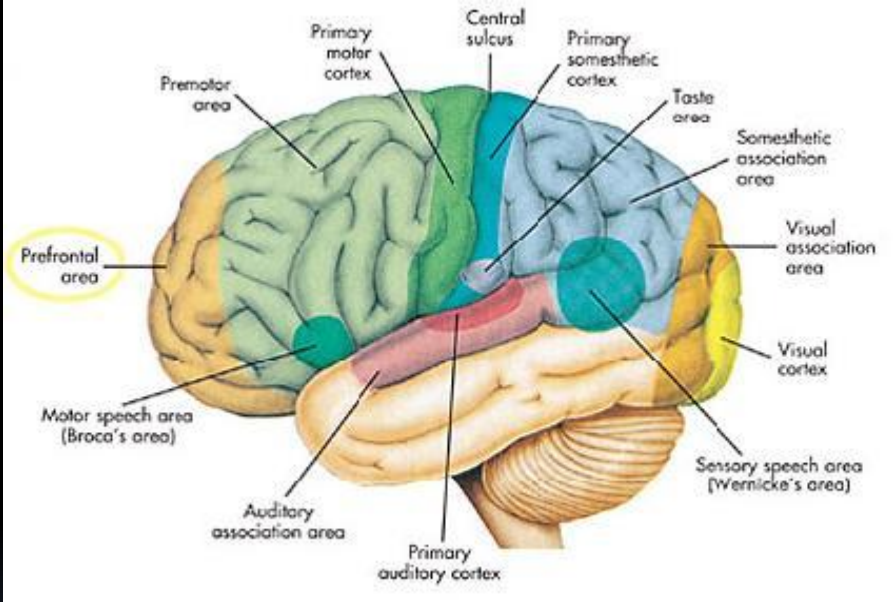




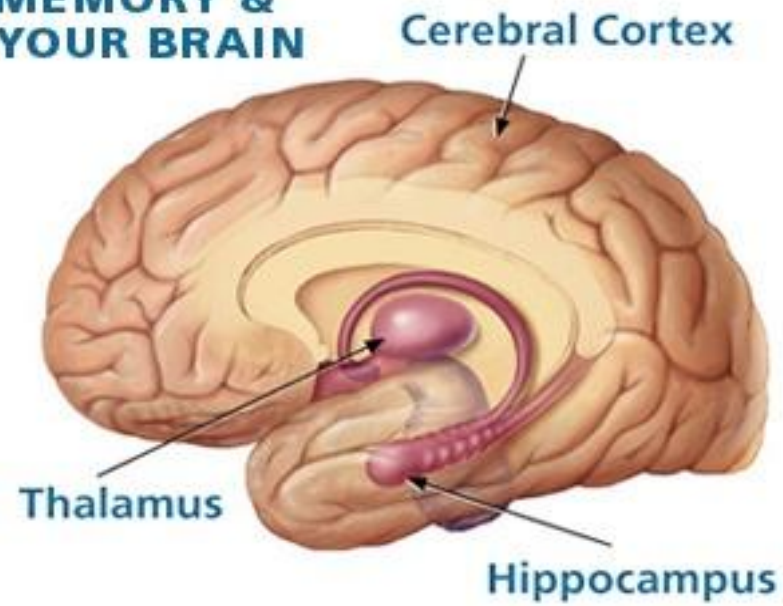


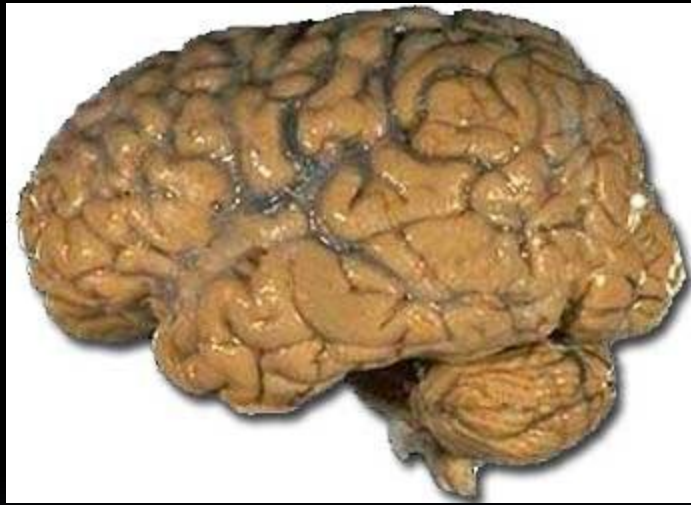
## Brain Activities That Represent The Corner Stone of Intelligence

- 1. Learning.
  - 2. Understanding and comprehension.
  - 3. Memories and memory storage.
  - 4. Working memory.
  - 5. Access and retrieval of memories.
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**MEMORY &  
YOUR BRAIN**








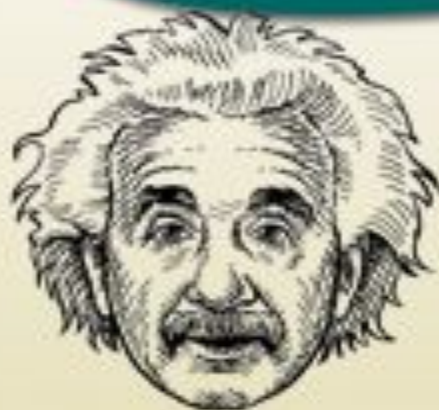
# The Role of Genes in Intelligence

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**How can intelligence be improved?**

- 1. Early learning.**
  - 2. Improving the socioeconomic status.**
  - 3. Mother care.**
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*"Geniuses don't have more brain power than the average person, they just use their brains more efficiently"*