Brain Areas and Math Skills

- **Supplementary Motor Cortex**
  - Motor coordination
  - Calculation

- **Supramarginal Gyrus**
  - Number-quantity association
  - Calculation

- **Angular Gyrus**
  - Sound-symbol association
  - Word problems/reading

- **Wernicke's Area**
  - Language Comprehension
  - Word problems

- **Broca's Area**
  - Expressive language/
    sequencing
  - Word problems

- **Exner's Area**
  - Writing numbers
  - Calculation

- **Parietal Lobe**
  - Right: spatial awareness
  - Left: directional awareness
  - Right: Multistep problems
  - Left: Number reversals

- **Dorsolateral – Dorsal Cingulate**
  - Executive function/
    working memory
  - Multi-step problems,
    word problems
  - Quantitative reasoning

- **Middle temporal lobe**
  - Quantitative knowledge
  - Computation/fluency/
    word problems

- **Occipital Lobe (striate)**
  - Number recognition
  - Computation

- **Cerebellum**
  - Automaticity and timing
  - Mathematical fluency

LDs in Mathematics: Evidence-Based Interventions, Strategies, and Resources
https://www.ldatschool.ca/math/evidence-based-interventions-for-math/