

# BRAIN BASED LEARNING & TEACHING



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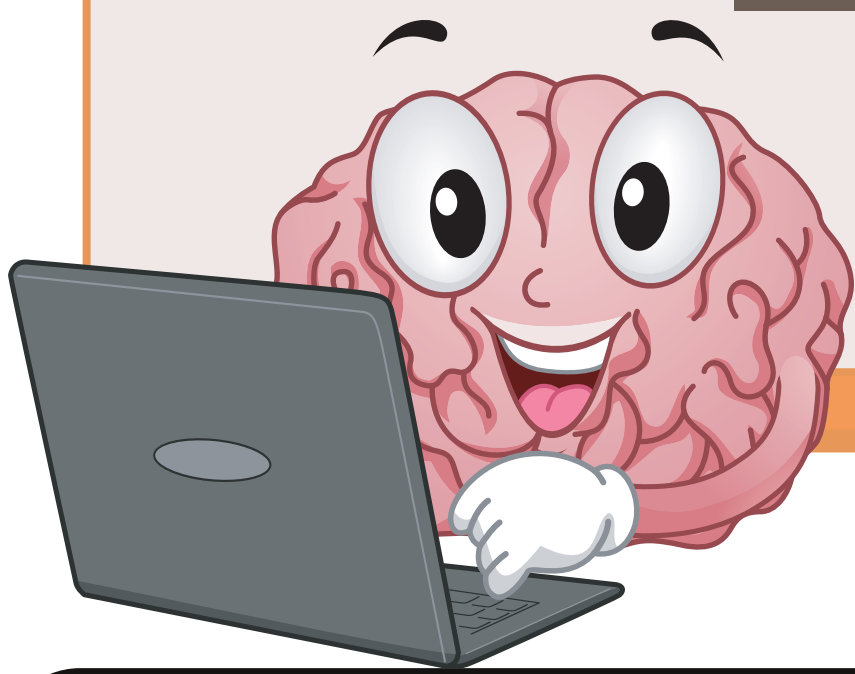
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## HOW THE BRAIN PROCESSES INFORMATION

BRAIN QUICKLY SCANS THE USEFUL INFORMATION

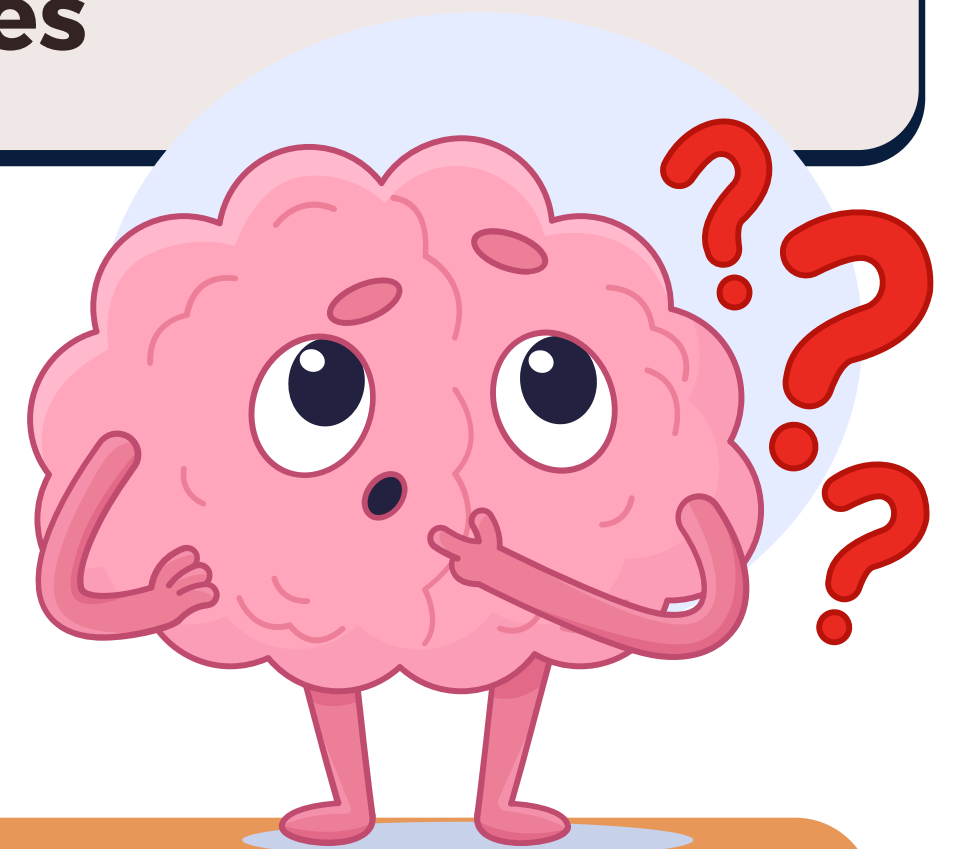
MOVES IT FROM THE SENSORY REGISTER

SHORT-TERM MEMORY OR WORKING MEMORY



## DID YOU KNOW?

**Brain-Based** learning is a student-centered approach with effective and lasting learning outcomes



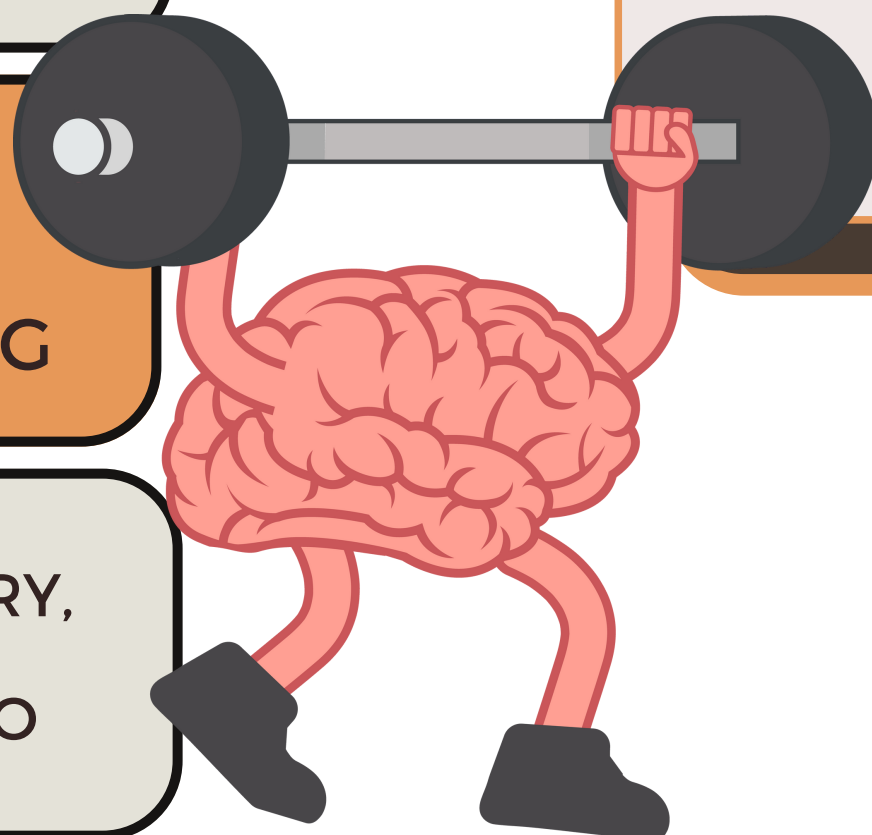
## THE WORKING MEMORY

WORKS AS A SKETCHPAD FOR THE BRAIN

STORES INFORMATION AND MANIPULATES IT BY COMBINING NEW MEMORIES WITH OLD ONES

PROVIDES COGNITIVE SPACE AND TOOLS TO PROCESS NEW THINKING

RELEASES THE NEW INFORMATION FROM MEMORY, MAINTAINS IT THROUGH PRACTICE, AND MOVES IT TO LONG-TERM MEMORY

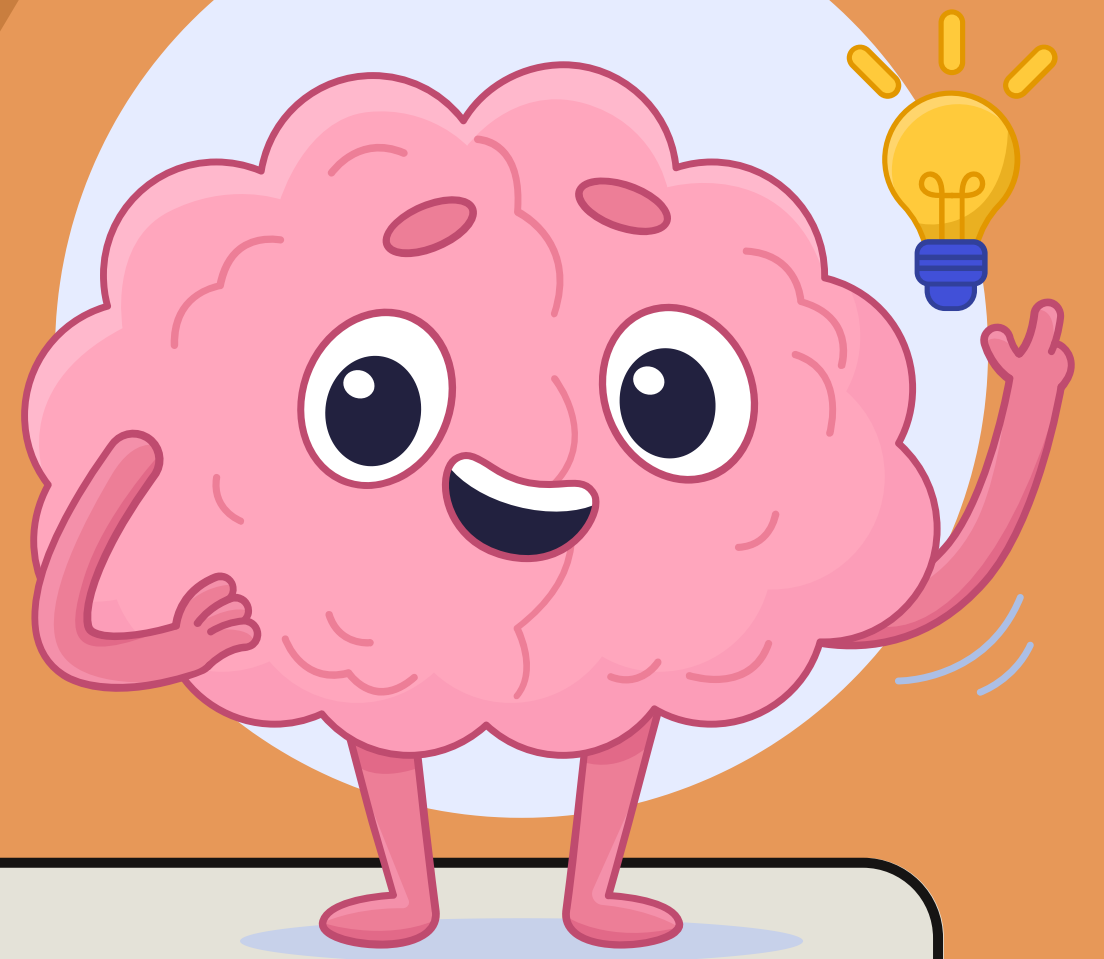


## THE BRAIN

- CONTEMPLATES NEW INFORMATION
- SOLVES COMPLEX PROBLEMS FOLLOWS DIRECTIONS

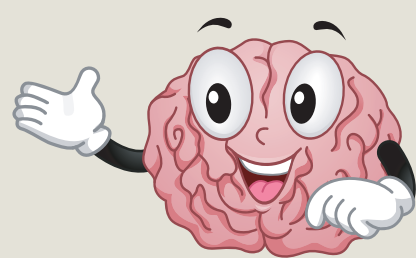


# WAYS TO ENHANCE THE LEARNING PROCESS



## BUILD ON PREVIOUS KNOWLEDGE

Connect new information with prior knowledge as it reduces uncertainty. This gives some space to the working memory allowing it to work more efficiently.



## BREAK-DOWN INFORMATION

Break information into small pieces and ensure all students are keeping up with the pace.



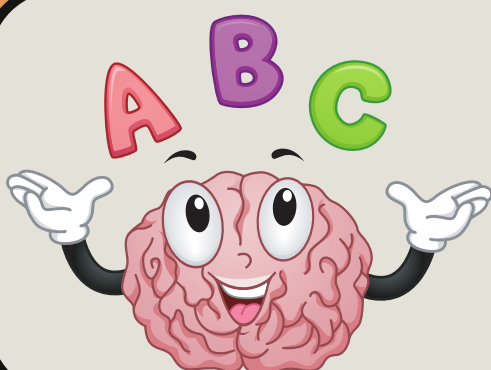
## MUSIC

Use music to improve learning and promote a positive classroom atmosphere. Music also impacts the way the brain processes information, enhancing the perception of language and speech.



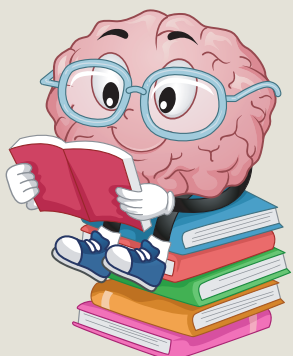
## MULTIPLE FORMAT DIRECTIONS

Use verbal and visual aids and cues to deliver the lesson. Directions given in both visual and verbal formats help students understand and memorize new information, which can be aided with examples.



## REPETITIONS

Repetition Encourage them to repeat tasks several times. Repetition helps to transition a skill from conscious to the subconscious and over time it gradually becomes easier.



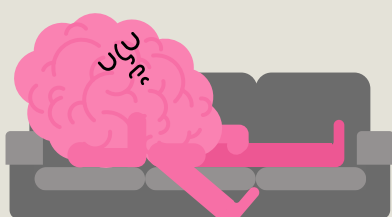
## ACTIVE READING

Encourage students to underline, highlight, and write down main points while reading chapters. This will allow them to quickly revise and store information in the long-term memory.



## WRITING DOWN STEPS

Students with weak working memory should write every step down when solving complex problems like math calculations. This will allow them to keep track of what they were doing.



## BRAIN BREAKS

Encourage them to perform different activities like exercising, playing, relaxing, etc. This will help them to re-energize and refocus on the lesson.