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Strengthening Teaching Competences
in Higher Education
in Natural and Mathematical Sciences

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Modalities of mental mapping method in lecturing and teachers' preparatory work

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IMPROVEMENT OF PEDAGOGICAL AND METHODICAL COMPETENCIES OF TEACHERS / ASSOCIATES IN HIGHER EDUCATION INSTITUTIONS, Niš,
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Why do we have a problem with learning?

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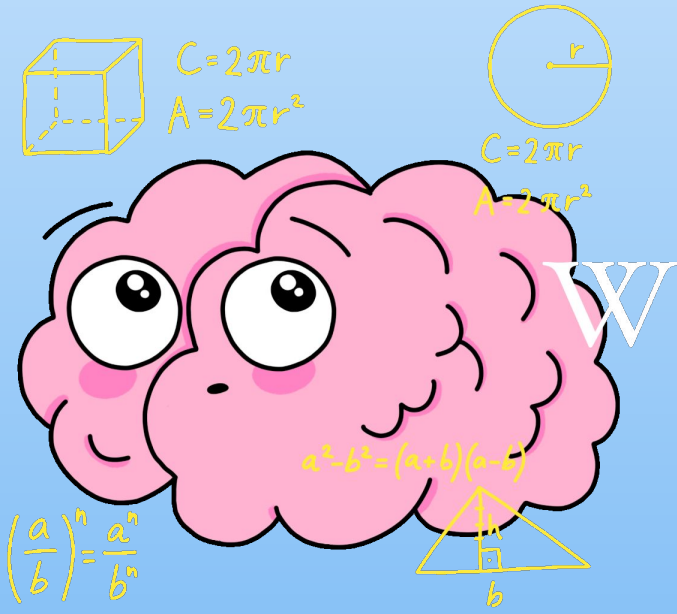
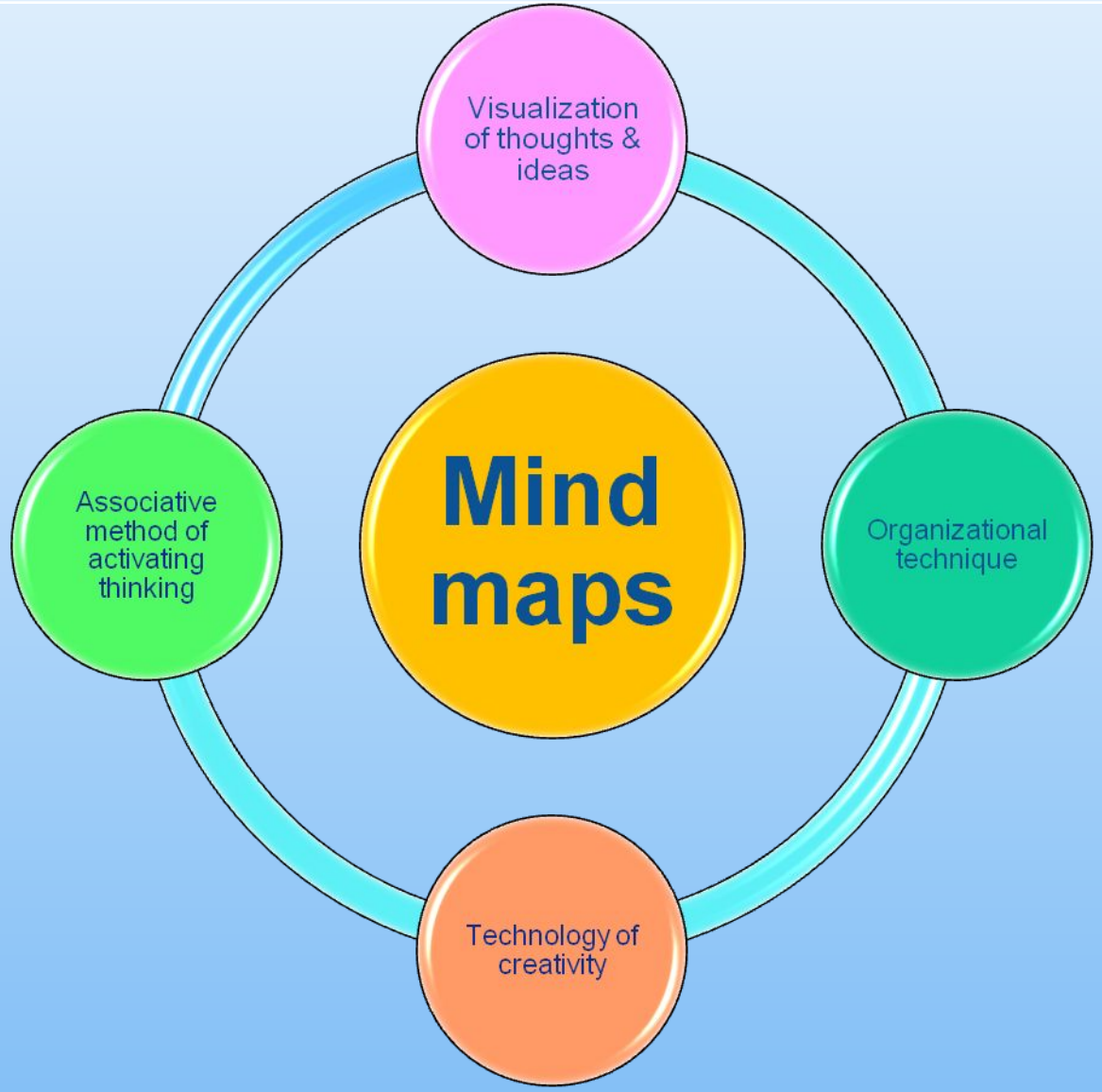
- Learning as a complex mental operation
- Unlearned learning rules and techniques
- Problem with remembering abstract data
- Problem with reproducing information exactly in order
- Nonlinear but logically connected abstract information in the brain



Mind mapping as a solution for learning problems



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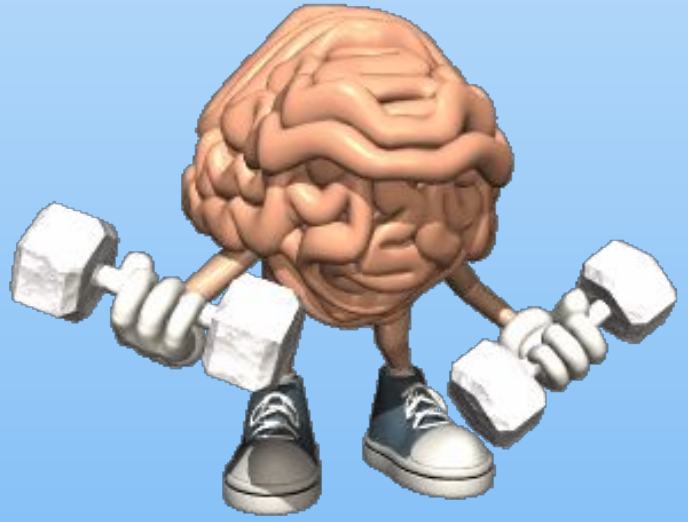
When it is useful to use mind maps?

- ✔ independent learning
- ✔ presentation of a product or service
- ✔ inscription a large amount of information
- ✔ generate new ideas



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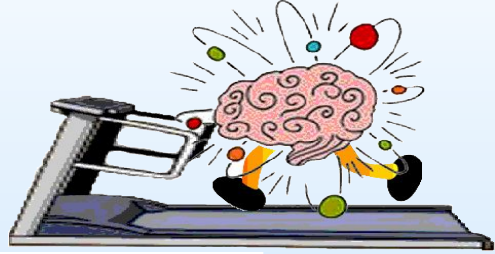
Mind mapping in education



Benefits:

- improving the quality of teachers‘ work
- better understanding and retaining students‘ knowledge
- confining lesson information into one space
- grasping complex topics and ideas
- active and multisensory engagement
- associating various pieces of seemingly disconnected information
- better information retention and making sense
- linking end goals with current thought processes
- capitalizing research and action at post-secondary level

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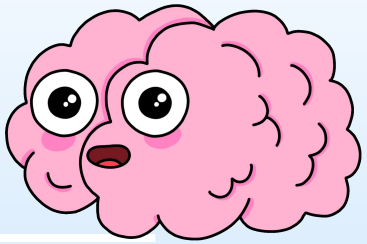
Using mind maps in the classroom



- creating a curriculum overview or lesson plan
- organizing and managing class projects
- creating introductory presentations
- designing discussion templates and fostering critical thinking
- facilitating oral exams and lesson reviews
- creating games, quizzes and questionnaires

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How to create mind map?

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1. Write the **subject in the center** of your paper / canvas
2. **Draw branches** that point away from the center (thoughts and ides – use meaningful keyword)
3. From each **branch more ideas can branch off** (hierarchical levels in a map)
4. **Use colours, icons and images** (mental triggers for sparking new ides)

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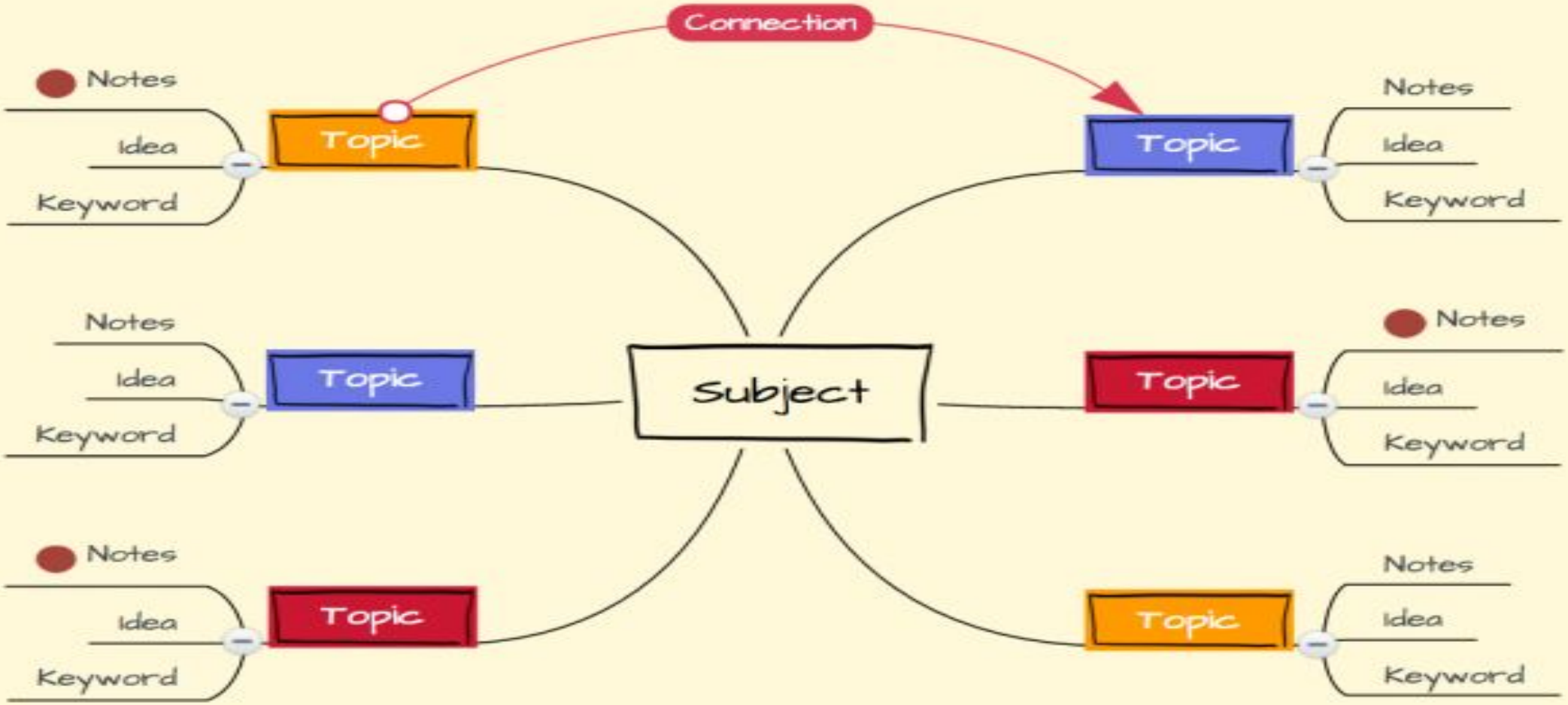
Map structure



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Final product

Romeo and Juliet: Love and Death - Text Passages

- *"If he be married. / My grave is like to be my wedding bed"*
  - If Romeo is married, Juliet will die unmarried
  - Juliet is foreshadowing her real death
- *"Life were better ended by their hate, / Than death prorogued, wanting of thy love."*
  - Romeo would rather die right now than later and without her love
- *"The earth that's nature's mother is her tomb; / What is her burying grave that is her womb"*
  - Everything that grows, grows from the earth, and everything that grows dies and returns to the earth
- *"Do thou but close our hands with holy words, / Then love-devouring death do what he dare; / It is enough I may but call her mine"*
  - Death can't scare Romeo as long as he is with Juliet
- *"I'll to my wedding-bed; / And death, not Romeo, take my maidenhead!"*
  - Romeo has been banished
  - Juliet thinks that his absense will kill her

Mind mapping software and tools

- iMindMap
- FreeMind
- Mindjet Mind manager
- Mural
- MindMeister
- Ayoa
- Kialo
- …

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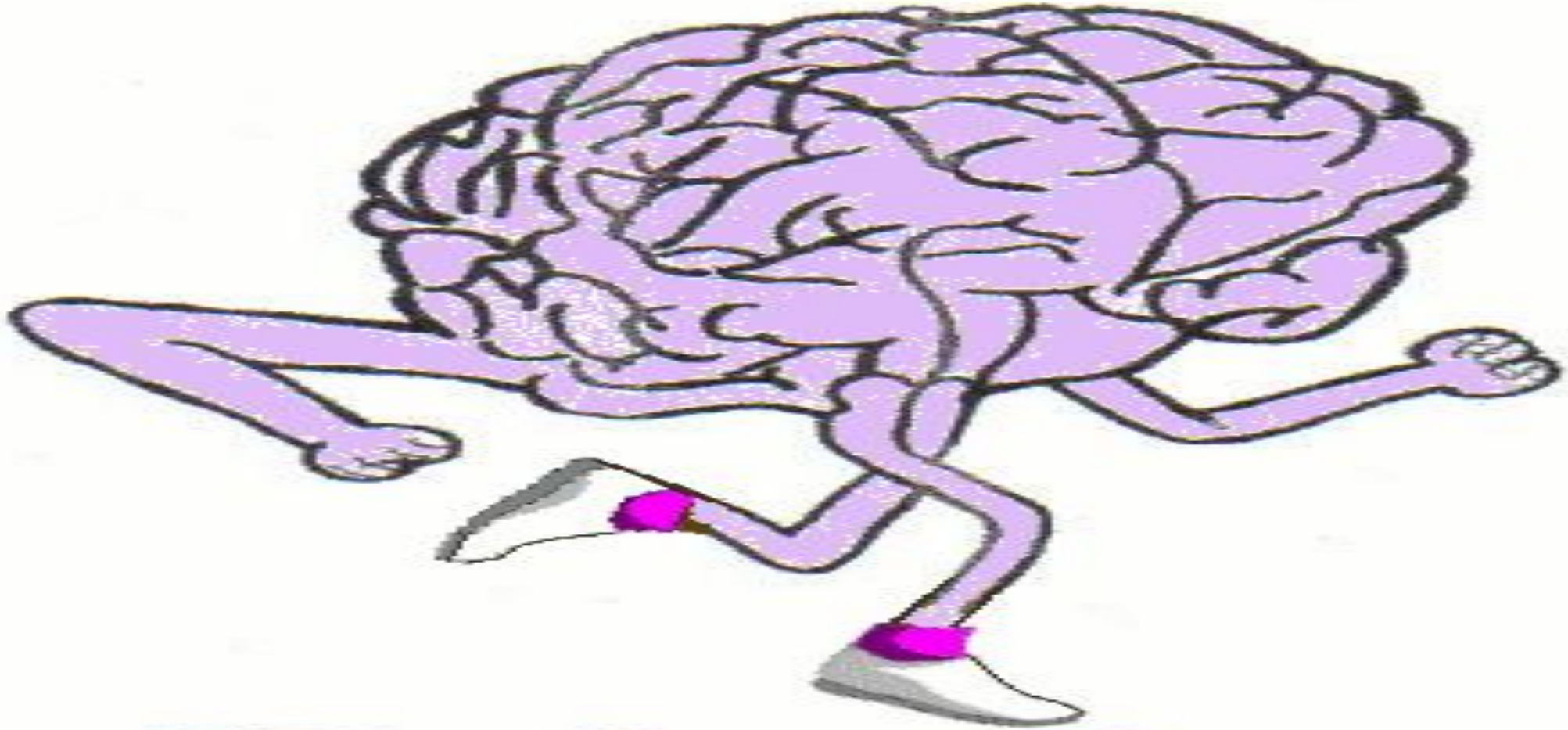
THANK YOU FOR YOUR COOPERATION