



TELESEICT Intensive Programme  
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## **Use of ICT for strengthening education and learning**

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# Computer-based learning environments in education

- ICT covers almost every part of our lives (working, studying, communicating), it has become essential in all fields (workplace, school, home)
- There is an increasing interest for the use of computer-based learning environments (digital games, apps, etc.) in educational practice and research.



# ICT and intellectual disabilities

- If we can make computers accessible for everyone, all activities may become available for everyone
- ICT has a significant role in inclusive education, as it can be one of the most helpful tools in the education of children with special needs
- ICT is a particularly valuable tool for people with disabilities and can improve their quality of life, increase their social inclusion and participation



## Advantages of ICT tools

individualized learning

group size

(can be applied in larger groups)

innovative task presentation

instructional support

no need for permanent  
teacher presence

providing immediate and  
individualized feedback

# Modern technology in education

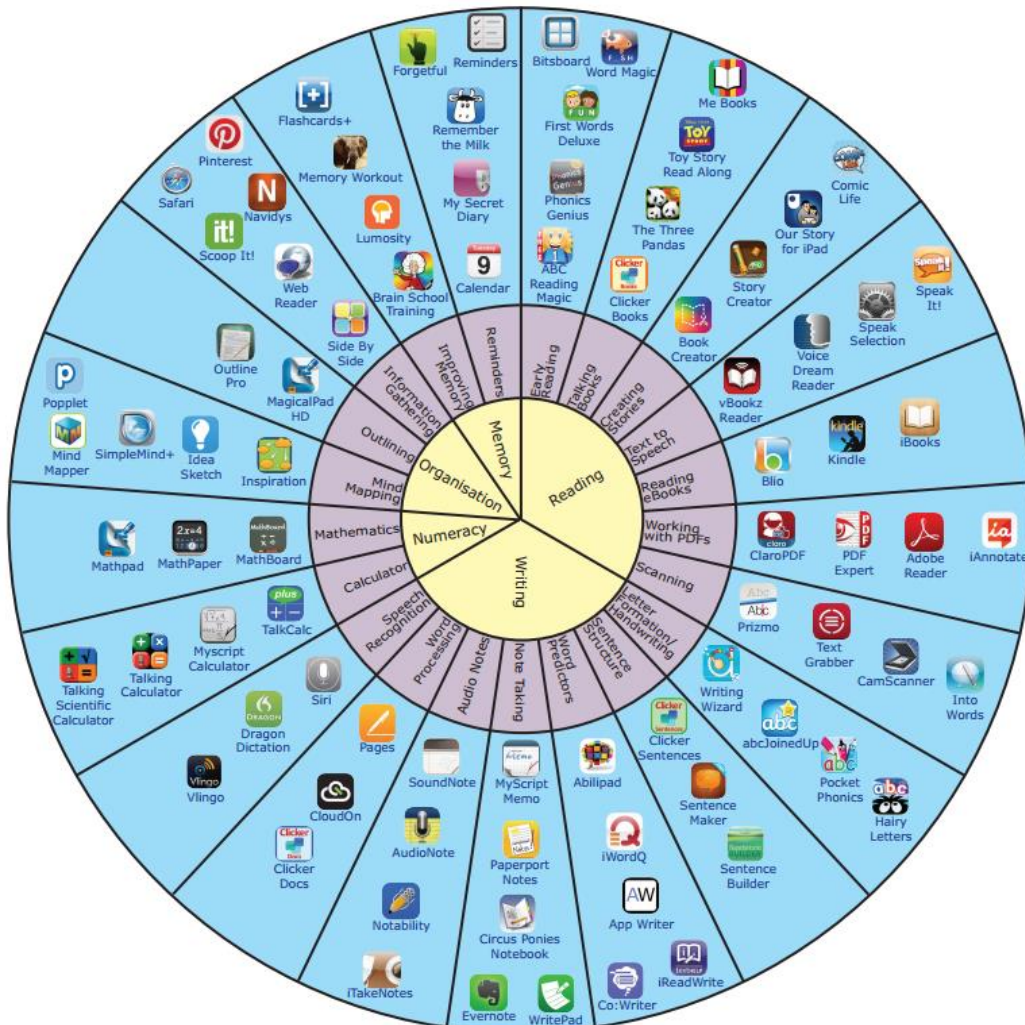
- **Instructional tools:** smart boards, student response systems, applications (apps), etc.
- **Online assessments:** immediate feedback, adaptive testing, etc.
- **Educational games:** adaptivity, motivation, positive attitude towards learning, etc.
- **eLearning:** to overcome distances, etc.

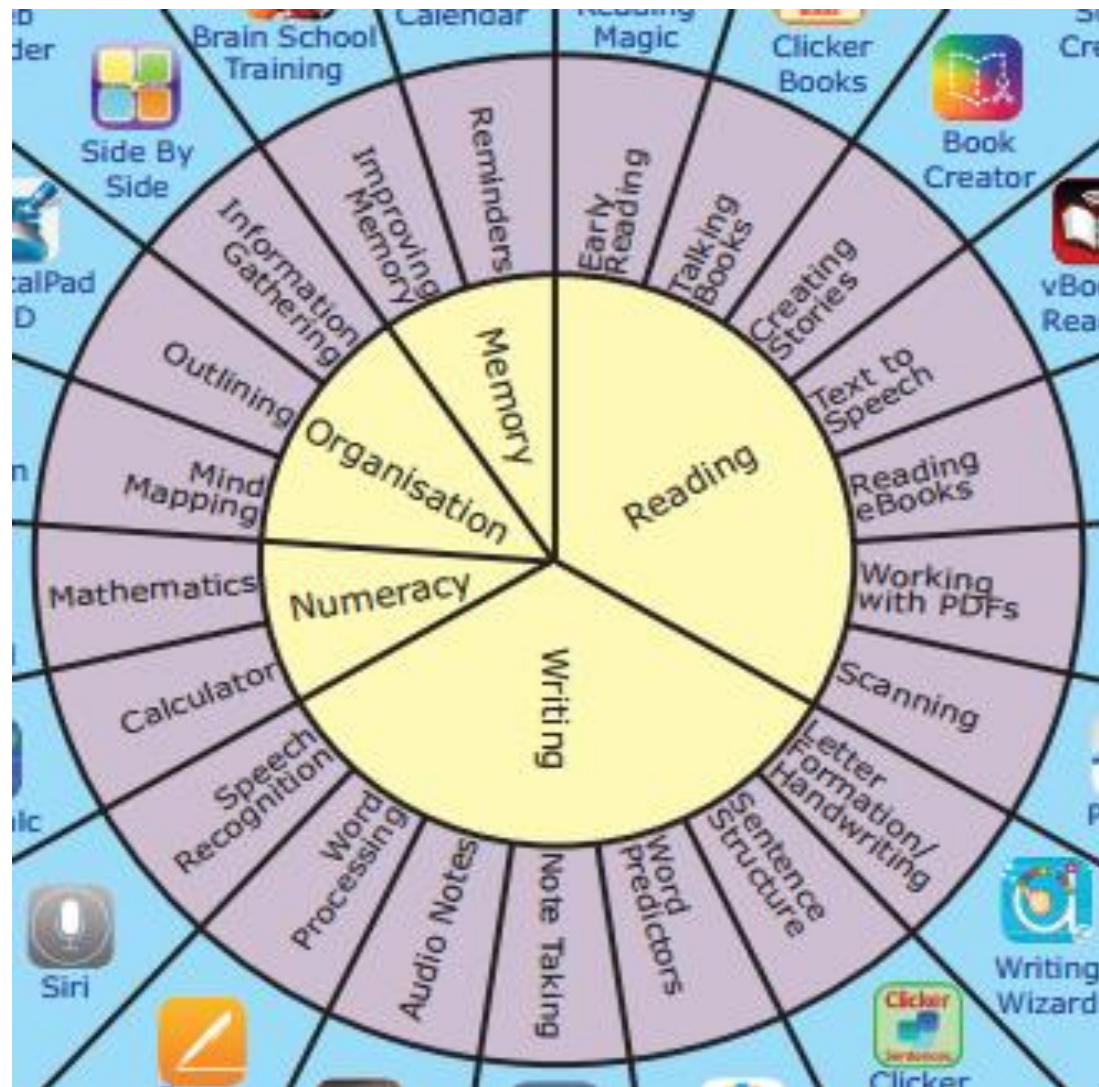




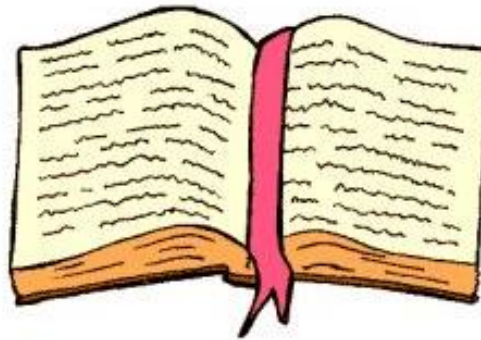
# 'The wheel of apps'

Reading  
Writing  
Numeracy  
Memory  
Organization





# Developing reading skills





# Speech Master

<http://www.inf.u-szeged.hu/projectdirs/beszedmaster/letoltes.html>

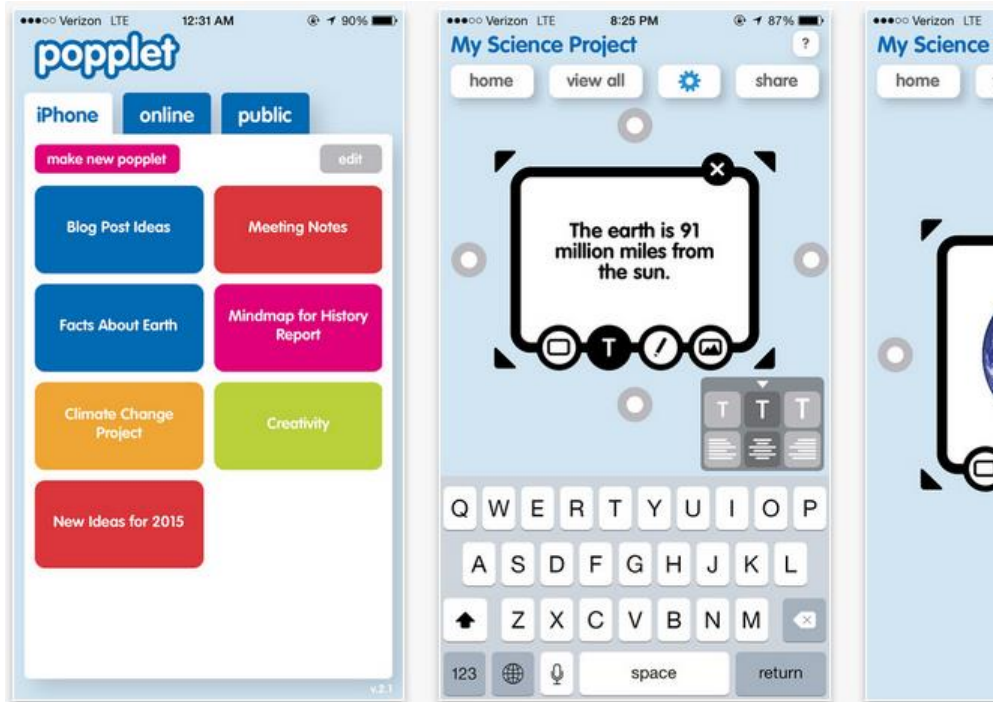


The 'Speech master' is a software for developing oral and reading skills

- The program is suitable for the development of children with hearing and learning disabilities
- Speech correction: practising volume, rhythm and sound, etc.
- Reading support: practising vowels, consonants and phoneme pairs

# Popplet

<https://itunes.apple.com/us/app/popplet/id374151636?mt=8>



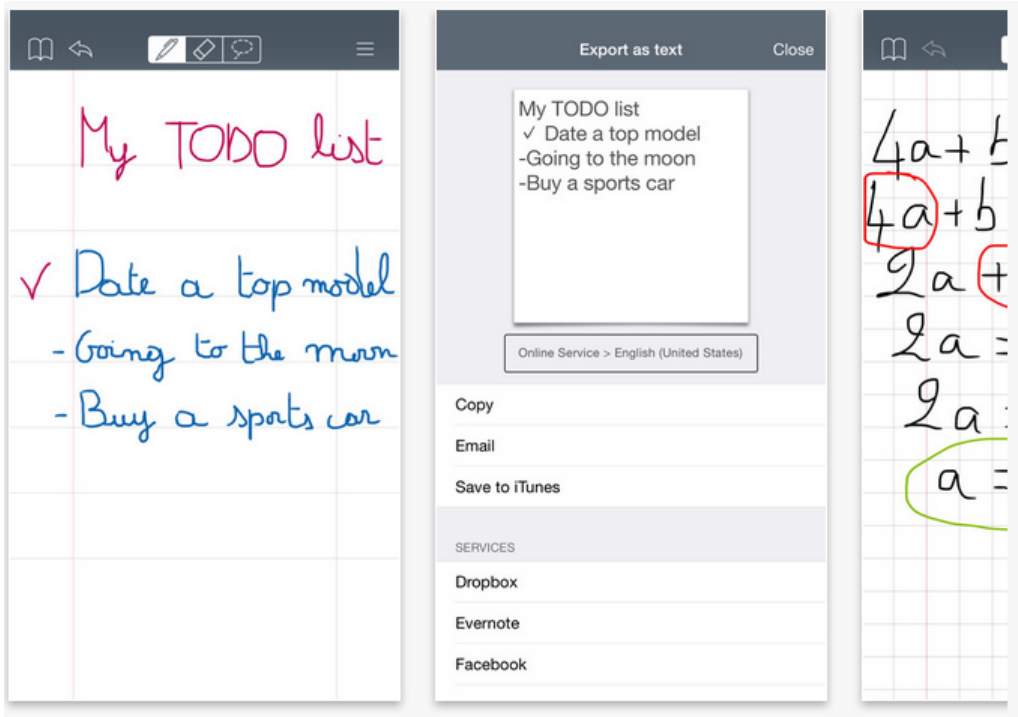
A mind-mapping app that can help dyslexic children to organize their thoughts and can help them in structuring the main points of essays and their readings

# Developing writing skills



# MyScript Memo

<https://itunes.apple.com/us/app/myscript-memo/id446368116?mt=8>



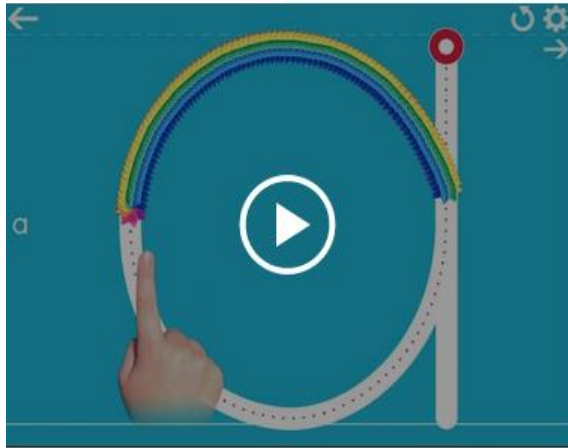
With MyScript Memo children can take notes by using their handwriting and can convert them to digital text

- Digital texts can be exported and shared with Facebook, Twitter, Gmail or can be copied/pasted to any other text application software
- MyScript Memo is available in 63 languages



# Writing Wizard – Handwriting

<https://itunes.apple.com/us/app/writing-wizard-kids-learn-to-write-letters-alphabet-words/id631446426?mt=8>



Writing Wizard is an app to help a child to learn how to write the letters of the alphabet, numbers and words through a fun system that was carefully designed to maintain motivation

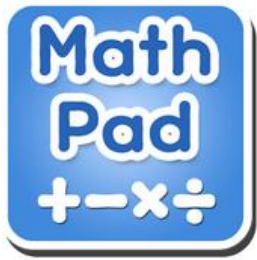
## Main features

- Suitable for early learners, preschool and 1st grade children
- Shows and enforces how to write letters correctly
- Helps to learn how to write uppercase & lowercase alphabet letters, numbers and words
- Allows to create own word lists (and is able to record audio for each word)
- Checks learning progress with reports



# Developing numeracy skills





# Math Pad

<https://play.google.com/store/apps/details?id=com.study.mathpad>

This app lets children to solve a math problem by screen touching and handwriting



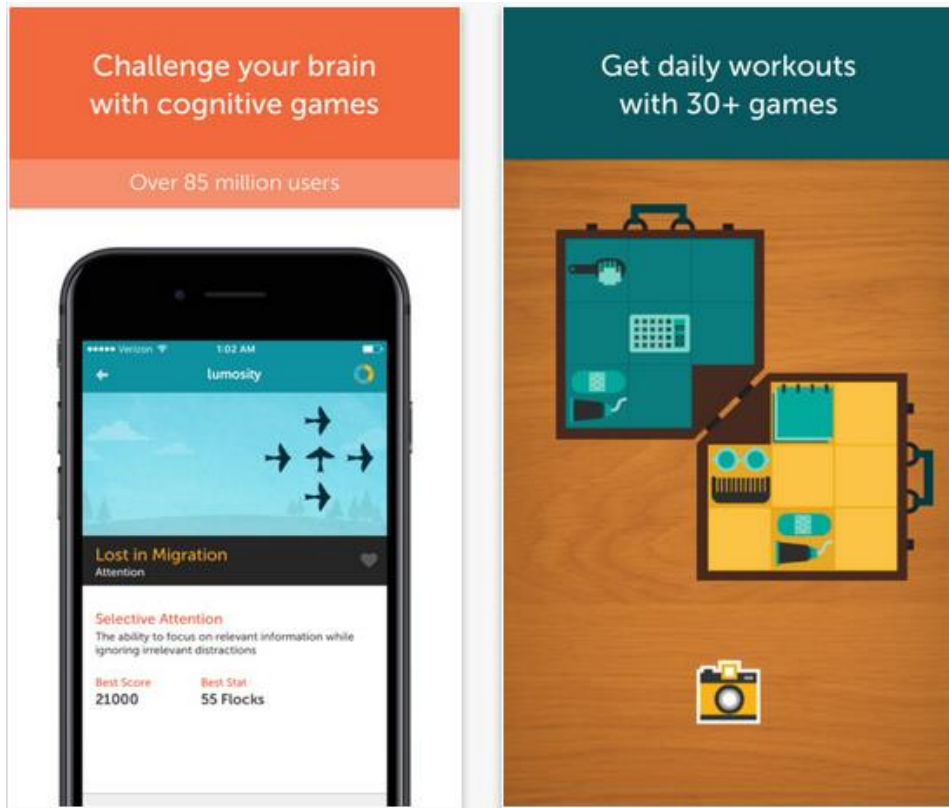
- The application is mainly for elementary school students
- It allows practising and testing addition, subtraction, multiplication and division
- It registers the best scores and compares to the others in the world

# Developing memory skills



# Lumosity - Brain Training

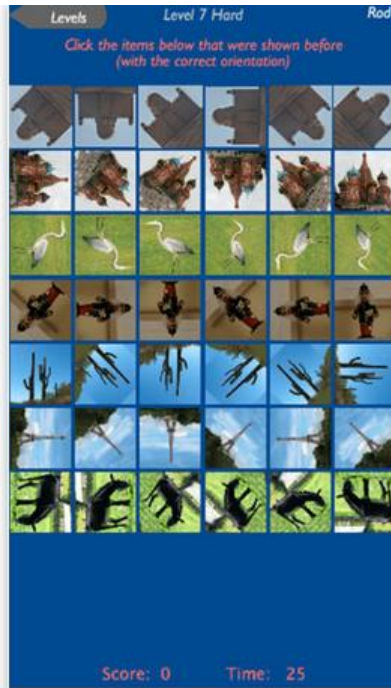
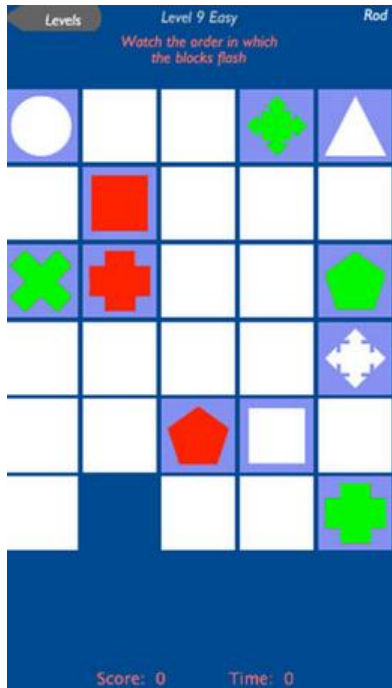
<https://itunes.apple.com/us/app/lumosity-brain-training/id577232024?mt=8>



Lumosity offers a comprehensive brain training program with more than 25 brain games. The children can test their memory and attention

# Memory Workout

<https://itunes.apple.com/gb/app/memoryworkout/id506299504?mt=8>



This app combines together a wide range of different memory tests, from matching in pairs to running mazes

- With eight major types of game using different sets of things to recall up to 9 levels
- On each settings, there are over 500 different levels. It is also challenging on the higher levels



# ICT and teacher training in Hungary

- **Special education students:** detailed information and discussion of special needs, but only few courses about ICT
- **Mainstream teacher training:** nothing or only one course about special needs, and only few courses about ICT
- **Mainstream teachers' practice:** lack of different teaching methods and ICT tools that can be used when teaching SEN children
- **Training and in-service training programmes** for teachers are needed, teachers need to be practiced in their ICT use by specialists in assistive technologies

**Thank you for your attention!**



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