

BRAINball: Teaching Math and Literacy through Movement



Lei Dunn

LDunn@Schoolhealth.com



@leidunn_vb

Agenda

1. What is BRAINball™

**2. The benefits of BRAINball™
for students and teachers**

**3. How to acquire BRAINball™
for your school**



SORT

What is BRAINball™



BRAINball™ is an innovative and unique physical education learning system that merges physical activity and academic learning through play.

Promotes health and physical literacy

Prepares students for higher level thinking

Partners cross-curricular stakeholders

SPELLING TAG

BRAINball™

- ✓ Developed by the University School of Physical Education in Poland
- ✓ Over 20 years of research
- ✓ Improvement in fine, motor and cooperation skills
- ✓ Develop math and reading skills

TEAM HANDBALL

HOW IS BRAINBALL™ PROVEN TO ENHANCE LEARNING IN CHILDREN?



STUDY #1

BRAINball™ is introduced in integrated education on reading and writing skills and physical education in students.

RESULTS

Participants recognized letters and read better.

STUDY #2

First grade students use BRAINball™ to help acquire knowledge and mathematical skills.

RESULTS

By the end of the school year BRAINball™ participants had better results than their peers who didn't.

STUDY #3

BRAINball™ is used in integrated education on reading and writing for dyslexic children.

RESULTS

Students improved in dictation writing and reading with comprehension.

STUDY #4

BRAINball™ is used to help adapt students to physical exercise.

RESULTS

Results showed students had a similar level of heart rate whether they were using BRAINballs or regular play balls.

STUDY #5

The effectiveness of developing hand-eye coordination using BRAINball™.

RESULTS

When tested at the end of the school year tests showed stronger results in the right hand than the left.

STUDY #6

Graphomotor skills, eye-hand coordination and temporal-spatial orientation improvement.

RESULTS

Positive changes in these areas were seen in all students.

STUDY #7

Using BRAINball™ in P.E. along with subject matter from classes.

RESULTS

Those P.E. classes showed BRAINball™ helps teach basic movement and writing skills.



DID YOU KNOW...



Students who played BRAINball™ throughout the school year opposed to those who didn't showed better results in mathematical knowledge and skills.



Significant improvement in physical fitness and body coordination was seen in disabled children using BRAINball™.



Dyslexic children also showed improvement in the number of words read per minute, reading with understanding, time of reading and number of errors.



BRAINball™ helps increase graphomotor skills and hand-eye coordination in participants.

Authors: Andrzej Rokita, Ireneusz Cichy, Sara Wawrzyniak, Kaczmarczyk, Krysmann, and Pawlik, Cichy at the University School of Physical Education Wrocław



2010

TIC-TAC-TOE

BRAINball™

- ✓ Consider alternate funding sources
- ✓ Title I for low and moderate income students
- ✓ Title III for English Language Learners
- ✓ ESSER Funds and Grants

MATH TRIANGLE

First Look! BRAINball Mini™:

- Smaller size
- No inflation necessary
- Hundreds of possibilities

Coming January 2025

Thank you for your time, attention and participation!



Lei Dunn

LDunn@Schoolhealth.com



@leidunn_vb

<https://bit.ly/BRAINBallinfo>