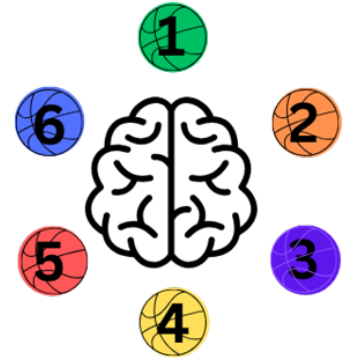


# BRAINball®



**Closing the Math and Literacy Gap with Movement**

**Lei Dunn**

**School Health Professional Learning Team**

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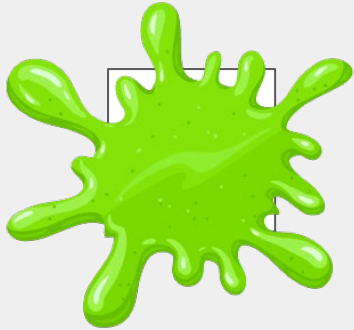
# Hi! I'm Lei

Nationally Certified Health  
Education Specialist  
K-12 Health and PE  
Instructional Specialist for  
VBCPS  
Faculty in the Darden  
College of Education at  
ODU  
School Health  
Professional Learning  
Team

# Agenda:

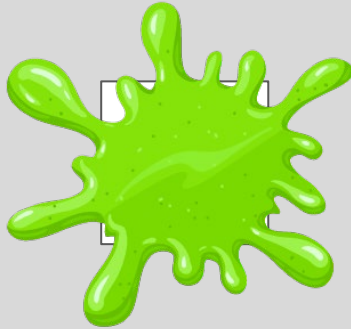
## What?

Teaching strategies to increase student engagement and recall information.



## Why?

To help students learn information and have fun in the process.

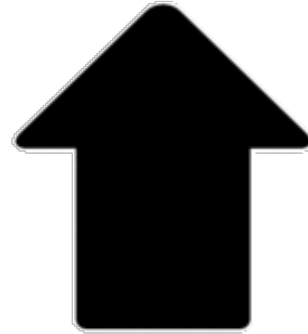


## How?

Leave today with a few new physical activities to help learning stick.



# Warm-Up



**0%**

**UPLOADING**



# ARITHMETIC AVENGERS

**(For transitions and grouping)**

# Equal or Less Than 15

= or < 15

Equal or Greater Than 26  
= or > 26

Equal or Greater Than  
16 but less than 21

= or > 16 but < 21





# BRAINball BOCCE

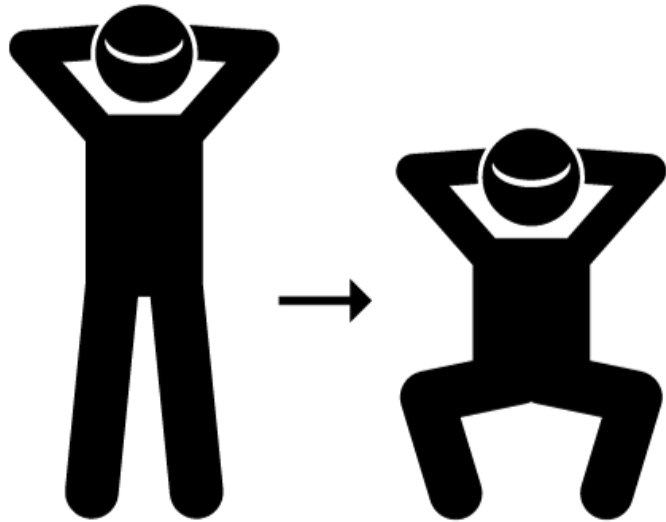


# TIC-TAC-TOE

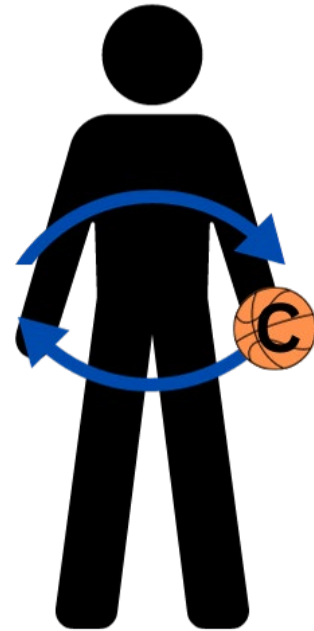


# LETTER DETECTION

# YES



# NO



## HOW IS BRAINBALL™ PROVEN TO ENHANCE LEARNING IN CHILDREN?



### 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 #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 #6

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

### RESULTS

Positive changes in these areas were seen in all students.

### 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 #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 #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 #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.





# LETTERLAND



# SHOW AND TELL

# How many bones are in the adult human skeleton?



**GREEN**

**206**



**YELLOW**

**196**



# There are \_\_\_\_ components of fitness.



**GREEN**

**5**



**YELLOW**

**7**

# Approximately, how many muscles are in the human body?



**GREEN**

**800**



**YELLOW**

**600**

# The human heart is considered a \_\_\_\_\_?



**GREEN**

**Muscle**



**YELLOW**

**Bone**

# Stretching while moving is called \_\_\_\_\_ stretching.



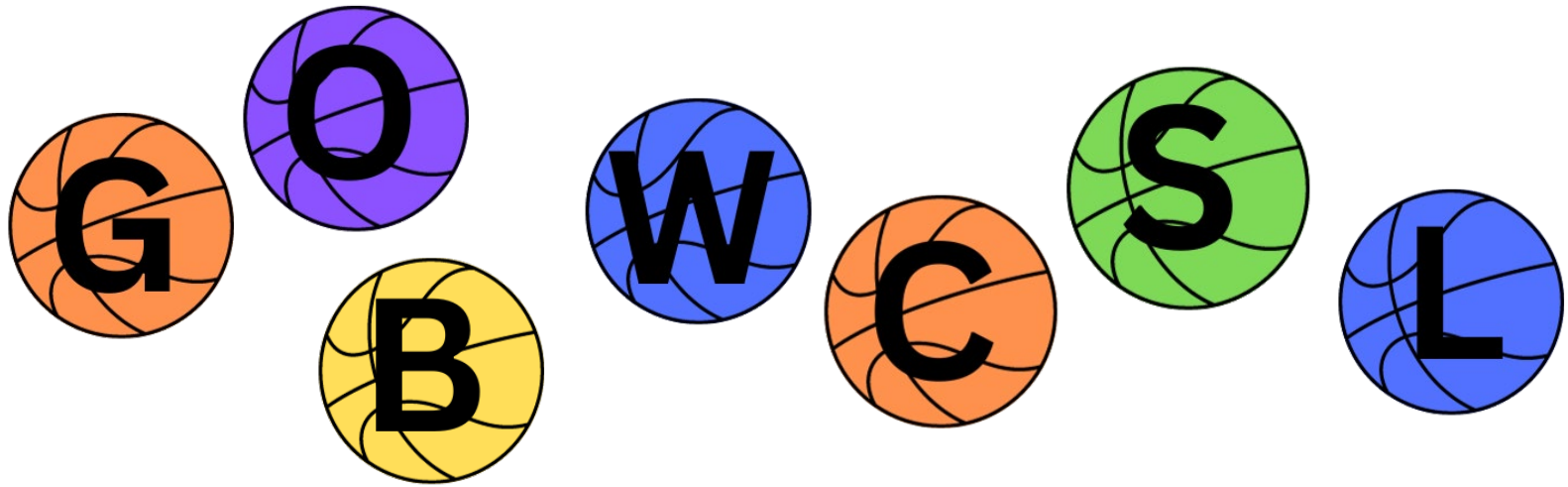
**GREEN**

**Static**



**YELLOW**

**Dynamic**

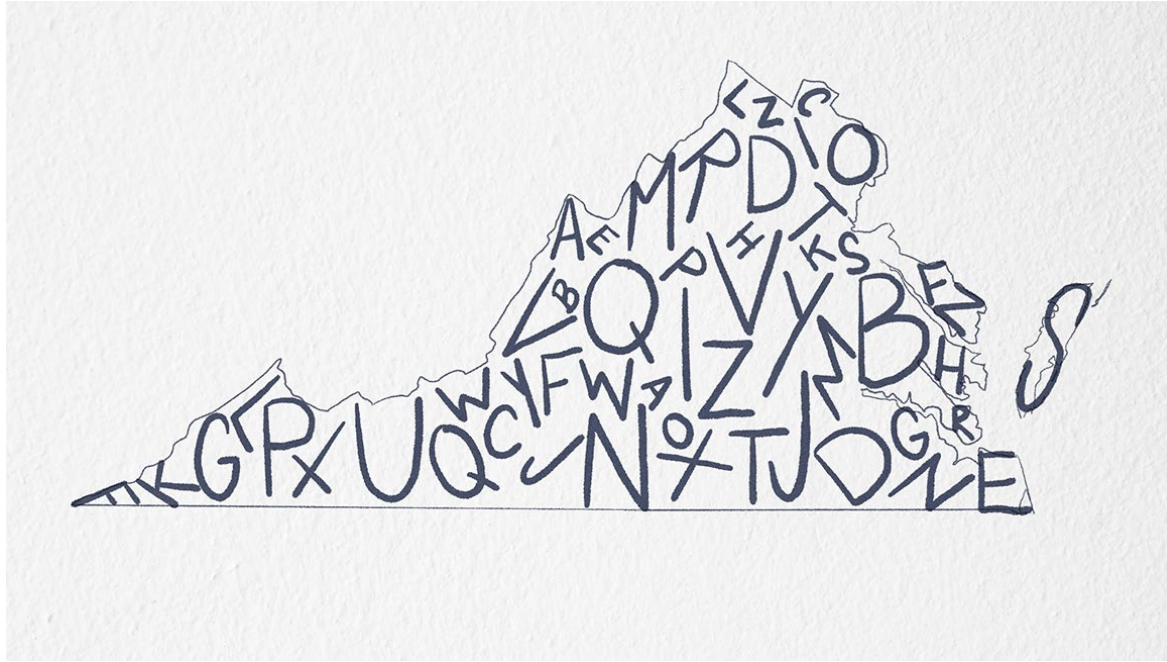


# BRAINball vs. BRAINball Mini



# SPELLING TAG

# The Virginia Literacy Act



# The Virginia Literacy Act

- Every student in kindergarten to grade five
- Every family
- Every teacher
- Every reading specialist
- Every division





# WORD WARRIORS WORKOUT



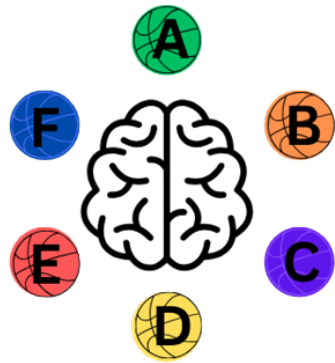
# Scrabble BRAINball

# Thank you for taking this brief survey!

School Health Professional  
Development Survey



**<https://forms.office.com/r/gmBPf6WNAv>**



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