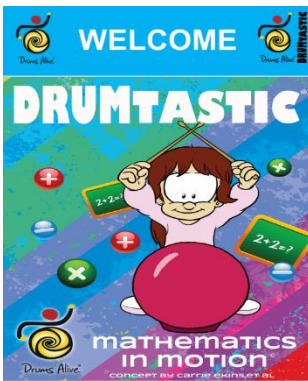




## Drumtastic Mathematics In Motion

This one of a kind Drumtastic Academic Beats module introduces a whole new dimension to education and allows teachers to take their students on a fun, creative, research-based mathematical journey that will ignite social emotional learning, significantly improve a student’s mathematical confidence and computation capabilities; and, lead to a higher level of physical literacy and improve test scores. Drumtastic Mathematics In Motion has been successfully implemented into many schools throughout the country and received laudatory remarks of how it has made learning and teaching more enjoyable and productive by helping create a highly collaborative environment through the use of movement, music and drumming. This program is a cross-curricular appendage to the required standards of academic instruction and provide the necessary resources for immediate implementation in the classrooms to help teachers teach and students learn.



### Areas of Focus

- Integrate rhythm and movement across the curriculum
- Engage students through discovery and problem solving
- Discover the benefits behind drumming and brain research
- Provide multiple health benefits through physical exercise
- Enhance executive function and mathematical confidence
- Explore relationships through kinesthetic, auditory and visual experiences
- Team Building activities to strengthen Social Emotional Learning
- Collaborative, Cross Curricular, and Research Based Teaching Concepts
- Interval Cardio and Cognitive exercises to improve brain and body functioning

### Drumtastic Mathematics In Motion (Sample Class Design)

- **Greeting, Welcome and Class Flow**
- **Introduction**
  - Warm up, Interval Cycles (a.k.a. Math Cognition and Cardio), Cool Down
  - Ready Positions and Drum Set Safety
  - Cognitive Processing (“Think Time” to mentally solve the problem) (@5 - 10 secs); or, as needed
  - Cueing system: “Ready, Go” to a beat keeper device (music, metronome, drumsticks)
- **Interval Brain & Body Workout**
  - **Math Cognition Cycle (3-5 minutes)**
    - “Show Me” Place Value
  - **Cardio Cycle (3-5 minutes)**
    - **Choreography:** Geronimo
  - **Math Cognition Cycle (3-5 minutes)**
    - Addition
  - **Cardio Cycle (3-5 minutes)**
    - **Choreography:** Peanut Butter Jelly
    - **Discovery Lesson:** Greater Than, Less Than, Equal To
- **Cool Down, Relaxation and Mindfulness**
- **Gathering, Review and Goodbye**

## Number Sense "Show Me"

Number sense is the foundation  
for mathematic computation

***Ready Position!***

Show me:  
Ones  
Tens  
Hundreds  
Thousands


Listen to the beat!  
Use number sense to drum out:  
**5      60      900      5,000**

## Cardio Cycle Geronimo

**A: V Step**


**B: Two Count Jumping Jack**

**C: Travel Right Neighbor Drum (RND), Own Drum (OD), Left Neighbor Drum (LND), Own Drum (OD)**



## Cognition Cycle Addition

Beginning	Intermediate	Advanced
4 + 2 =	9 + 7 =	8 + 78 + 2 =
3 + 3 =	24 + 44 =	843 + 4 + 3 + 8 =
6 + 6 =	78 + 35 =	5,045 + 1,340 =
0 + 7 =	170 + 188 =	3 + 4 + (-10) =
2 + (-6) = **	310 + 250 =	21 + 5 + (-2) =




## Cardio Cycle #1 Peanut Butter (PB), Jelly

**A: 4x Slide Right Neighbor Drum (RND), 4x Twist, 8x March in Place, Repeat left**

**B: 6x Single Beats (PB, PB, PB)  
2x DB Jelly**

**(Advance Challenge):  
12x Fast Single Beats, 2x DB**

**C: 8x Circle Slide R around Own Drum Set (OD), Repeat L**



Music: Viva - Drums Alive Kids Beats CD

**DISCOVERY LESSON: Greater Than, Less Than, Equal To**