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#### **Factor That**

**Lesson Overview:** Students get a chance to take a movement break while working on reinforcing mathematics skills.

Grade Level: 1st-5th

**Lesson Time:** 10 + minutes

**Prior Knowledge:** Basic mathematics depending on grade level.

Materials Needed: Cards with numbers or equations teacher intends to use

#### **Content Integration:**

Mathematics

• Physical Education

Health Education

# **Corresponding Standards:**

Common Core State Standards for Mathematics

- Operations and Algebraic Thinking
  - o Represent and solve problems involving addition and subtraction.
  - Understand and apply properties of operations and the relationship between addition and subtraction.
  - Add and subtract within 20.
  - o Work with addition and subtraction equations.
  - o Work with equal groups of object to gain foundations of multiplication.
  - o Represent and solve problems involving multiplication and division.
  - Solve problems involving the four operations.
  - Gain familiarity with factors and multiples.

## **Oregon Standards**

- Promotion of Physical Activity
  - Acquire knowledge and skills to understand the role physical activity has in promoting health.
- Expressive and Efficient Moving
  - Demonstrate knowledge of a variety of motor skills.

## **National Physical Education Standards**

- Demonstrates competency in a variety of motor skills and movement patterns.
  - o Locomotor
- Demonstrates the knowledge and skills to achieve and maintain a health-enhancing level of physical activity and fitness.

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- Physical activity knowledge
- Fitness knowledge
- Exhibits responsible personal and social behavior that respects self and others.
  - Personal responsibility
  - Accepting feedback
  - Working with others
  - o Rules and etiquette
  - Safety

# **Lesson Objective:**

Students get some physical movement while practicing some basic mathematics.

# **Lesson Description:**

- 1. Lead-in:
  - a. Teacher labels each wall of the room with numbers 2, 3, 4, and 5.
  - b. Teacher prepares number cards he/she wishes to use depending on level of students.
- 2. Step by Step:
  - a. Students go to any of the four walls.
  - b. Teacher calls out a number that is a multiple of 2, 3, 4, or 5.
  - c. Students who are on the wall that is a factor of the number called, move to another wall. Move using movements such as the following:
    - i. Jump
    - ii. Hop
    - iii. Skip
    - iv. Walk
    - v. Lunge

Example: If teacher calls 6 students on walls 2 and 3 move to a different wall.

- 3. Closure:
  - a. Review mathematic concepts as needed.
  - b. Discuss benefits of taking movement breaks during academic time.

# **Differentiation:**

- Advanced: Teacher can give two numbers and students have to add, subtract, multiply, or divide those numbers and then determine if the wall they are on is a factor of that number.
  - Example: 2 + 6 (students on walls 2 and 4 move)
  - o Example: 2 x 3 (students on walls 2 and 3 move)
- Struggling or Younger Students: Can do with subtraction or addition.
  - Example: 2 + \_\_\_\_\_ = 5 (students on wall 3 move)
  - Example: 5 \_\_\_\_\_ = 3 (students on wall 2 move)