

Objective

By the end of this lesson, you will be able to apply mathematical concepts to analyze and improve your jazz dance routines.

Materials and Prep

- Paper
- Pencil
- Calculator (optional)
- Basic understanding of algebra

Activities

- **Counting the Beats:** Listen to a jazz music piece and count the beats per minute. Calculate the beats per 8-count to understand the rhythm.
- **Measuring Movement:** Measure the length of your dance routine in feet. Convert it to inches and centimeters to understand different units of measurement.
- **Angles in Dance:** Identify different angles your body makes during dance moves. Use a protractor to measure and classify them as acute, obtuse, or right angles.
- **Pattern Recognition:** Analyze the pattern of your dance steps. Create a mathematical sequence to represent the pattern and predict the next steps.

Talking Points

- **Beats and Rhythm:** "In jazz dance, understanding the beats per minute helps us synchronize our moves with the music."
- **Measurement Conversion:** "Converting the length of our routine from feet to inches and centimeters helps us visualize the distance we cover."
- **Angles in Dance:** "Angles in dance movements can be classified just like angles in geometry, helping us understand the positions of our body."
- **Pattern Analysis:** "Recognizing patterns in our dance sequences allows us to predict the next steps and create more cohesive routines."