

Patterns and Relationships

Arts Infusion Lesson

MAIN CONTENT:

MATH

THROUGH:

MUSIC

BIG IDEA or ESSENTIAL QUESTION: *Does every relationship result in a chain of cause-and-effect relationships?*

MATERIALS

- Selected Music
- Student Computers
- Garage Band App
- Chart Paper

CONTENT CONCEPT

PATTERNS & RELATIONSHIPS

ART FORM CONCEPT

OSTINATO

ASSESSMENT

- Group performance and reflective summaries
- Whole Class observations and critiques

STANDARDS:

Math: 5.OA.3 Generate patterns using given rules and identify apparent relationships.

Music: MU: Cr2.1.5 Organize and develop artistic ideas and work. **MU: Pr5.1.5** Develop and refine artistic techniques and work for presentation. **MU: Re9.1.5** Apply criteria to evaluate artistic work. **MU: Cn10.0.5** Synthesize and relate knowledge and personal experiences to make art.

PROCESS (OVERALL SUMMARY OR STRATEGY)

Math is the science of patterns. These patterns can be sequential, spatial, temporal, and even linguistic. There are connections between things that do not seem connected but can be observed, recorded, and predicted with math. An ostinato is a motif or phrase that persistently repeats in the same musical voice and is also referred to as a recurring rhythmic or melodic pattern. The teachers and students will explore riffs and vamps within given musical pieces identifying and explaining the repeating patterns and connections utilizing mathematical observation skills. The students will improvise and create rhythmic and melodic patterns for a given purpose in small groups and mathematically identify all patterns within the piece.