Lesson 1 (Kwame’s Sound Storybook)

ELA
- Readers Workshop opening
- Similes
- Onomatopoeia
- Story mapping
- Fiction text features
- Read aloud
- Writing using the senses
- Vocabulary within content
- Listening/reading skills emphasized with questions about story – during and after
- Research acoustical engineering

Math
- Patterns with drums
- Graphs and measurements

Social Studies
- Culture discussion
- Mapping
- Research country of Ghana (food, language, etc.)

Miscellaneous
- Music: do drumming at the same time as you read the story
- i-Movie: graph sounds
- PE: movement patterns/physical
- Music specialist collaboration
- Discuss inclusion – a springboard of Kwame’s blindness
- Community building is emphasized with how you treat someone with a disability
- Bird research
- Problem solving process

Lesson 2 (Shh! Damping Sound)

ELA
- Predictions/analysis
- Using language
- Journal reflections (writing)
- Word wall
- Writing steps of the process of trials
- Describing materials (writing adjectives)

Math
- Create math problems about vibrations (ex. Vibrates 400/hour. After 6 hours, how many vibrations?)

Social Studies
- Instruments used by different people around the world

Science
- How do you make different pitches on same rubber band?
- Observations
- How tension changes pitch
- Vibrations

Miscellaneous
- Morning Meeting: Share properties
- Research guitars or string instruments
**Lesson 3 ("Seeing" Sounds)**

**ELA**
- Characteristics and traits
- Second Step curriculum
- Bird research

**Math**
- Patterns
- Representations
- Graphing

**Science**
- Parts of the bird
- Other animal alarms songs
- Learning about pitch
- FOSS tone generator

**Music**
- Music teachers – instruments
- Peter and the Wolf – sounds
- Learn about genres of music
- Students demo pitch, volume, and duration on their instruments (those that they play)
- Play a recorder

**Miscellaneous**
- Breaking a system into different parts
- Using a diagram and labels to explain their thinking
- Listening skills

**Lesson 4 (Representing Bird Sounds)**

**ELA**
- Journaling
- Non-fiction text on birds
- Understanding of content vocabulary
- Multiple word meanings (pitch, volume, etc.)

**Math**
- Graphs
- Math investigation skills
- Spectrogram
- Patterns of representation of data
- Timeline for duration

**Art**
- Visual representation

**Science/Social Studies**
- Geography – where do the birds live? Habitats?
- iPod Apps – Bird sounds
- Key/legend