

**MUSIC/CORE CONNECTIONS**  
**Music Department - Chesapeake Public Schools**

**CONNECTION:** SCIENCE  
**LEVEL(s):** 5<sup>TH</sup> Level

**MUSIC SOL(s): TSW**

- 5.11 – investigate the connection between air waves, musical instruments, and the human voice.

**CORE SOL(s): TSW**

- 5.2 - investigate and understand how sound is transmitted through vibrations.

**MATERIALS:**

- tuning forks, xylophones, drums, combs and paper, single reed and double reed instruments, autoharp, piano, goblet with water, triangle, voice

**PROCEDURE(s):**

1. Distribute one piece of paper to each student. Give them the task of making “sound” with that paper. Ask for volunteers to illustrate. (Crumble, wiggle, snap, etc.)
2. If not discovered by students, lead them to blow on the edge of the paper to create sound by making it “vibrate”.
3. Using instruments available to you, (display on a table at the front of the room), illustrate how each creates sound through vibration.
4. Illustrate the differences when sound must travel through air or solids (drums flat on the floor or tilted between feet or knees).
5. Allow time for students to experiment and investigate the “instruments”.

**ADDITIONAL STRATEGIES:**

- A good follow-up might be “Banuwa” (5WOM – page 68) to illustrate how drums and voices are an important part of communication in the African culture.

