

## Sounds Good To Me

**Honoree:** Gwendolyn Bradley

**Grade Level:** 12th Grade

**Subject:** Anatomy & Physiology

**Standard/Indicator:** The Respiratory System: The student will have a working knowledge of the functions of the respiratory system and will have mastered the objectives related to the Anatomy & Physiology of the Respiratory System.

### Goal/Objective

- Identify the organs forming the respiratory passageway from the nasal cavity to the alveoli of the lungs.
- Explain the role of the Respiratory System in singing.

### Items/Materials Needed:

2013 SC African American History Calendar  
Gwendolyn Bradley Biography

### Steps/Strategies

1. Teacher will engage the students in lesson by having opera music playing as they walk into the classroom.
2. Teacher then guides the students through the anatomy and physiology of the Respiratory System; emphasizing how this system works with speaking and singing.
3. Once completed, teacher uses 2013 SC African American History Calendar to introduce the Honoree Gwendolyn Bradley.

**Printable Worksheets:** Lab Activity (Attached)

### Useful Links:

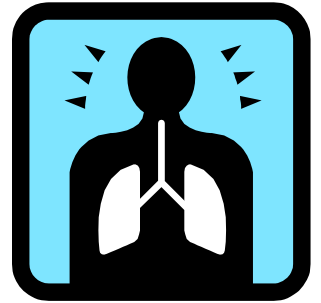
Gwendolyn Bradley singing: <http://youtu.be/T0rMopmyINk>  
<http://web.nmsu.edu/~lleeper/pages/Voice/marrujo/Involved.htm>

Name: \_\_\_\_\_ Period: \_\_\_\_\_ Date: \_\_\_\_\_

## Respiratory System Worksheet

Answer all questions using *COMPLETE SENTENCES*. Use the back of the paper if necessary.

1. Draw a picture of the trachea, bronchi, bronchioles, and lungs below. Label each part clearly.



2. What is at the end of every bronchiole?

3. Describe the path that oxygen takes as it enters the respiratory system. It should begin in your mouth and end at your muscles.

4. How do alveoli and capillaries help to get oxygen into your bloodstream and carbon dioxide out of your bloodstream?

5. People who have asthma sometimes have “asthma attacks”, which means their bronchioles swell up and close. Why could an asthma attack make it difficult to breathe?

6. Smoking cigarettes makes your alveoli less elastic (or “stretchy”), so they can’t expand as much. Explain why people who smoke often may have trouble breathing.

7. Explain one way that the *respiratory* system allows you to sing at different volumes?