

Teacher:

Date:

Grade:

Subject / Course: ELA, Science

Unit Title: Lung Matters

Duration: 20–30 Minutes

Mississippi Science Framework:

INQUIRY

- 1a. Form hypotheses and predict outcomes of problems to be investigated. (DOK 3)
- 1d. Use simple sketches, diagrams, tables, charts, and writing to draw conclusions and communicate data results. (DOK 2)

LIFE SCIENCE

- b. Classify the organs and functions of the nervous, circulatory, and respiratory systems of the body. (DOK 1)
-

CCRS:

ELA

- W.4.2d** Use precise language and domain-specific vocabulary to inform about or explain the topic.
- RI.4.3** Explain events, procedures, ideas, or concepts in a historical, scientific, or technical text, including what happened and why, based on specific information in the text.
- RF.4.4a** Read grade-level text with purpose and understanding.
- L.4.1f** Produce complete sentences, recognizing and correcting inappropriate fragments and run-ons.
- L.4.2** Demonstrate command of the conventions of standard English capitalization, punctuation, and spelling, when writing.
- L.4.4** Determine or clarify the meaning of unknown and multiple-meaning words and phrases based on grade 4 reading and content, choosing flexibly from a range of strategies.

Summary of Unit:

Respiratory System. Discussing the lungs, where they are located in the body and their function. Includes information on the first lung transplant, which took place in Mississippi.

Lesson Objectives:

- Explain the role of the lungs and how they function in the body
- Model how the lungs work through the activity
- Give examples of what can happen if the lungs do not work anymore and discuss information about transplant
- Learn about the first lung transplant, who performed it and where it took place

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Lesson Structure:

- The teacher will have students read the “Lung Matters” handout to learn information about the lungs and how they work. This can be done as a group, in partners, or individually, depending on your students’ needs.
- Students will work through the matching vocabulary. You can review their responses to help them improve their understanding.
- Students need to be separated into small groups or pairs to complete the lung activity.
- After a group discussion of how the lungs work, students will complete the “All about the Lungs” handout. This can be used as classwork, homework, or an assessment.
- The teacher will talk to the students and discuss their answers to question number four on the “All About the Lungs” handout to introduce discussion about lung transplants.
- The teacher will read “Lung Transplants” and discuss what happens in a lung transplant.
- The teacher will show students the *Mississippi, Believe It!*TM transplant poster and Dr. James Hardy is discussed.

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Guiding Questions:

1. What are the lungs?
2. Where are your lungs located and what do they do?
3. What body system are the lungs located in?
4. What happens if your lungs stop working?
5. What is a lung transplant?
6. Where was the first lung transplant performed?

Activity:

Working Lungs

Students can blow up a balloon or into a paper bag to show how the lungs work and to display inhaling and exhaling

Materials needed – balloons or paper bags

The teacher can also demonstrate what happens when the lungs don't work and you are unable to blow up the balloon or the bag. Lead the students into discussion about lung transplant.

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Key Vocabulary:

- Lung
- Respiratory
- Oxygen
- Carbon dioxide
- Transplant
- Patient
- Donor
- Veins

Resources & Materials

- Whiteboard
- Charts/Maps
- Computer
- Smartboard
- Video/Audio
- Textbook Pages
- Workbook Pages
- Handout
- Manipulatives
- Other:

Assessments:

- Pre-Test
 - Post-Test
 - Observation
 - Oral
 - Writing Assessment
 - Journal
 - Homework
 - Demonstration
 - Other:
-

Learning styles addressed:

- Visual
- Auditory
- Kinesthetic
- Tactile

Guided Practice:

Notes:

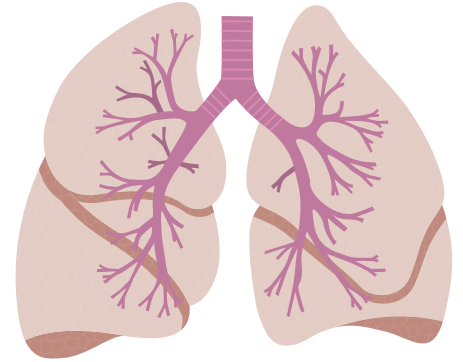
Interventions:

- Small Group
- Modified Assignments
- Accommodations
- One-on-One
- Tutoring (Peer and Teacher)
- Manipulatives
- Other:

Independent Practice:

Lung Matters

You have two lungs located in your chest. One lung is located on each side of your heart. The lungs are the organs that help you



breathe, so they are part of the respiratory system. The lungs expand as you breathe in oxygen and contract as you exhale carbon dioxide. The lungs help your heart to get oxygen for your body. Your lungs even work while you are sleeping.

Lung Transplant

Lung transplants are performed on people who are likely to die from lung disease within 1 to 2 years. The patient's conditions are so severe that other treatments do not work anymore. The first lung transplant was performed right here in Mississippi by Dr. James Hardy.



The University of Mississippi Medical Center

Name _____

Date _____

Catch Your Breath!

Write the letter of the correct match next to each word.

- | | |
|-------------------------|---|
| 1. _____ inhale | a. Breathing |
| 2. _____ exhale | b. Organ that is a part of the respiratory system |
| 3. _____ respiration | c. To breath in |
| 4. _____ oxygen | d. To breathe out |
| 5. _____ carbon dioxide | e. Gas that is inhaled and that your body needs to survive |
| 6. _____ lungs | f. Gas that is exhaled as a part of breathing |



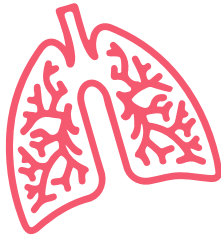
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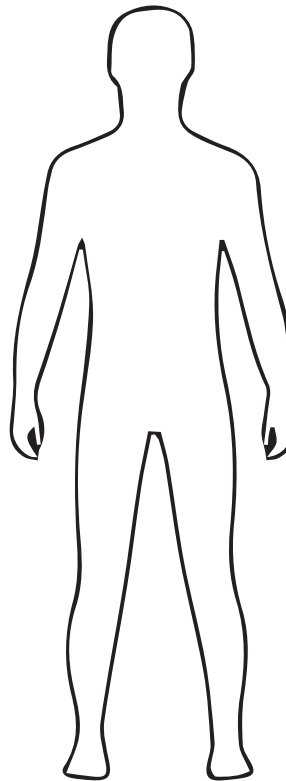
All About the Lungs

Answer in complete sentences.

1. Where are the lungs located in your body?

2. What do the lungs do?

3. Draw the lungs on the picture to the right.



4. Predict what you think will happen if your lungs don't work properly. Use vocabulary words to explain.
