



Interaction of Body Systems Lesson 1: *The Solve* Student Handout

I. Read/Watch the Mosa Mack Mystery

Either on your own, in a small group, or as a class (your teacher will let you know), read/watch Mosa Mack's Comic Mystery on the Interaction of Body Systems. Then, fill out the questions below. Include a page number/time code in your answer as evidence of where you found your answer.

Name: _____

Date: _____

Episode Questions

1. What is the job of the muscular system?

2. Mosa and Billy are picked up by a red blood cell, who takes them on their journey. What is the job of the red blood cell? What system is it a part of?

3. Where do the red blood cells pick up oxygen and drop off carbon dioxide? What system is this part of?

4. What else do Billy and Mosa see in the blood? What does it do and where does it come from?



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5. What is the job of the nervous system?

6. When Mosa and Billy continue their journey through the leg, why do they think they might be in the wrong place?

7. Why is the red blood cell with carbon dioxide panicking?

8. What did Mosa figure out? Which system was responsible for the tingling in Aaliyah's leg?



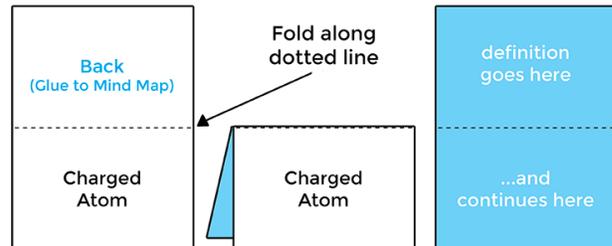
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II. Vocabulary Activity

Note: Your teacher will tell you whether you will complete this activity [online here](#), or offline by following the instructions below

1. Using the materials at your table, cut out your vocabulary cards along the **solid lines**. Note: Do not cut the cards at the dotted lines.



2. Fold the cards at the dotted lines.

3. Write the definition of the term on the inside of the card using the definitions below.

4. Use the clues from the Mind Map images, definitions, and vocabulary terms to place the cards in the correct location on the Mind Map, explaining your thinking to group members as you go.

5. When you're ready to glue or tape, raise your hand so you can check your Mind Map with your teacher.

6. Use glue or double-sided tape to connect the back of the vocabulary card to the correct place on the Mind Map.

7. Use your completed Mind Map to discuss these questions with your group:

- a. What are three things that travel through the circulatory system to and from cells?
- b. How are the jobs of the respiratory system and digestive system similar?
- c. What "vocabulary word" seems to travel to every system in the body?





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Mind Map

The Brain is part of the:

Blood Vessels are part of the:

Lungs are part of the:

The Stomach is part of the:

Muscles are part of the:

The diagram shows a human figure from the waist up, with internal organs and muscles visible. The brain is highlighted in pink, the lungs in pink, the stomach in orange, and the muscles in red. Green arrows point from the text boxes to the corresponding organs. Each text box is followed by a large empty rectangular box for a student's answer.



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Nervous System	Circulatory System	Respiratory System
Muscular System	Digestive System	

Vocabulary

- Circulatory System: supplies oxygenated blood throughout the body
- Digestive System: breaks down food and absorbs nutrients
- Muscular System: allows for body movement
- Nervous System: communicates messages from the brain to all systems
- Respiratory System: supplies oxygen to body



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III. Quiz: Check for Understanding

Complete the exit ticket below or you can take the quiz online!

Name: _____

Date: _____

1. Which body part is part of the circulatory system and responsible for pumping blood throughout the body?
 - a. Leg
 - b. Brain
 - c. Stomach
 - d. Heart
2. Which body part is considered the command center that controls everything in the body?
 - a. Heart
 - b. Brain
 - c. Stomach
 - d. Muscle cells
3. When we breathe in, oxygen goes into our lungs. The lungs are part of the:
 - a. Muscular System
 - b. Respiratory System
 - c. Circulatory System
 - d. Digestive System
4. When you walk, muscles in your legs contract and relax. This is a great example of the _____ system in action!
 - a. Muscular System
 - b. Circulatory System
 - c. Endocrine System
 - d. Nervous System
5. Which of the following is carried by a red blood cell throughout the body?
 - a. Glucose
 - b. Oxygen
 - c. Carbon dioxide
 - d. Both b. and c.



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6. Where in the body is oxygen picked up and carbon dioxide dropped off?
 - a. The tongue (located in the mouth)
 - b. The lungs (located in the chest)
 - c. The small intestine (located in the abdomen)
 - d. A muscle (located in the leg)

7. Which of the following substances does a muscle cell need in order to function?
 - a. Glucose
 - b. Oxygen
 - c. Carbon dioxide
 - d. Both a. and b.

8. Which of the following statements are true about our body's systems? (Select all that apply.)
 - a. The nervous system sends messages to the body.
 - b. The digestive system helps carbon dioxide leave the body through the lungs.
 - c. Blood cells are a part of the circulatory system.
 - d. The digestive system helps break down food into energy.