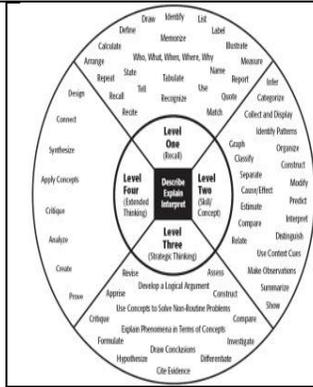


Unit: Science for Success		Lesson 4: Life Science Human Body and Health: Body Systems	
<p>Objectives</p> <p>The student will be able to:</p> <ul style="list-style-type: none"> • Discuss and write about the systems of the human body. • Apply the knowledge they gained through research to make a poster about an organ of the human body. <p>This lesson took four class periods!</p>		<p>Materials:</p> <ul style="list-style-type: none"> • New Readers Press Science for the GED Test pages 16-17. • Computers • Overhead or document camera • https://www.youtube.com/watch?v=tsGJJYBV49E&list=PL-1CF2i2nfv-xtR8lXtYjxsJq5QEW56ei&index=4 (GED Study Guide: The Human Body 5:05) • https://www.youtube.com/watch?v=nnjmrrQ6xOs (Human Body Systems: The 11 Champions animation 7:44) • 11 body systems transparencies from Milliken Publishing Company, <i>The Human Body</i> ISBN1-55863-087-2 • Interesting Facts about the systems of the body (reading) • https://www.youtube.com/watch?v=hc1YtXc_84A (Respiratory Video 3:27) • http://archive.fossweb.com/modules3-6/HumanBody/activities/mrbones.html (skeletal system on-line activity students need the Surfaces or computers) • http://www.niddk.nih.gov/health-information/health-topics/Anatomy/your-digestive-system/Documents/Digestive_System_508.pdf (Reading on the digestive system) • https://www.youtube.com/watch?v=s06XzaKqELk (Digestive System Video 11:52) • http://ed.ted.com/lessons/what-if-we-could-look-inside-human-brains-moran-cerf (video on the brain (3:55)) • http://discoverykids.com/articles/your-nervous-system/ (article on the nervous system) • https://www.youtube.com/watch?v=NF68qhyfcoM (Circulatory System video 2:56) • https://www.youtube.com/watch?v=oHMmtqKgs50 (Circulatory System 1:35) • https://www.youtube.com/watch?v=lfGYd1wrTgE (Urinary System 2:58) • http://biology.about.com/cs/anatomy/a/aa022604a.htm (Reading on immune system) • http://www.ehow.com/list_6496823_middle-body-systems-lab-activities.html (organ trail activity) • http://sciencespot.net/Pages/otrail1.html (poster template--I enlarged this to 11x17) 	
	<p>WDOK:1, 2, 3, 4</p> <p>CCSS:</p> <p>SDSS: MS-LS1-3</p>	<p>Key Words</p> <ul style="list-style-type: none"> • Body systems- organ systems, respiratory, circulatory, urinary, digestive, muscular, skeletal, nervous, integumentary (skin), lymphatic, and reproductive • Alveoli- tiny air sacs, from which oxygen passes to the blood • Pulmonary- relating to or affecting the lungs • Medulla- the lowermost part of the brain in vertebrates. It is continuous with the spinal cord and controls involuntary vital functions such as those involved with the heart 	



and lungs.

- Cerebellum - the part of the brain located directly behind the front part cerebrum, typically consisting of two hemispheres connected by a thin central region, and serving to control and coordinate muscular activity and maintain balance.
- Cerebrum- the front part of the brain, divided into two symmetrical halves cerebral hemispheres. In humans, it is where activities including reasoning, learning, sensory perception, and emotional responses take place.
- Retina- a light-sensitive membrane in the back of the eye
- Aorta- the main artery in mammals that carries blood from the left ventricle of the heart to all the branch arteries in the body except those in the lungs.
- Artery- a blood vessel that is part of the system carrying blood under pressure from the heart to the rest of the body

Introduction: : We live in our bodies and we are only allotted one for our lifetime, but how much do we know about these machines and what do we take for granted? We are going to learn more about the 11 systems of the body—how each system works and how they work together to get us through each and every day. (Display the transparency for each body system on the overhead or document camera as we discuss that system.)

Instructional Activities 1. Read lesson 3 in *New Readers Press Science for the GED* pages 16 through 21.

2. View the Human Body Systems: The 11 Champions animation. Read and discuss the Interesting Facts About the Systems of the Body Reading.

3. Complete the worksheets from *Systems of the Human Body* by Milliken Publishing Co. for each body system as we study it.

4. View the respiratory system video on the LCD and computer and discuss it.

5. Play the game on the human body web site. You look at the skeleton, and when you press the mouse anywhere on the skeleton, it disassembles. You then put it back together. When you have a bone in the correct place, the computer makes a noise to let you know it is correct. When the skeleton is together correctly, it will wave at you.

6. Complete the skin worksheet. Give the students 5-10 minutes to answer as much as they can. Give small groups one additional article marked teacher copy to skim for additional answers. Correct the worksheet together allowing students to fill in answers that they didn't find.

7. Read about the digestive system and watch the video about the digestive system.

8. Watch the video on the human brain and read the article on the nervous system.

9. Watch the videos on the circulatory system.

10. Watch the videos on the urinary system and the immune system. Then complete the worksheet on the immune system.

11. The Organ Trail-- Divide students into groups and assign each group an organ (kidneys, bladder, lymph nodes, spleen, ovaries, testes). The groups must gather as much information as possible about the organ to create a wanted poster. Some of this information may include what the organ's functions are, what diseases affect the organ and which organ system the organ is contained in. This information can be gathered through books, in the computer lab or through diagrams that you may have set up throughout the classroom.

Student Product

- The Organ Trail poster will be displayed in the classroom.