

Science Exploration Schedule  
Grades 3&4 Human Body Unit

**Reading Material:**

1. [Websites listed for each topic](#)
2. [Human Body Reading & homework booklet \(handouts\)](#)

10/11

Human Body Unit begins today! Today's topic is cells

*prior to class:*

**Read** from your handouts on the cell. Read over "cell vocabulary list" "comparing a cell to a factory: answer key". Label the parts of a cell on the colored cell picture. Answers are on the second page. After attempting to label, students may check the answers if they need help.

**Complete:** label the animal cell parts on the handout

**Website Resources:**

1. <http://www.iknowthat.com/com/L3?Area=Science%20Lab> This is a great resource for our science units this year. It used to be free, but unfortunately, there is a fee to join now. *However*, you can sign up for a free trial with your name and e-mail address to use it for a week. If you would like to do this, follow the directions below. Click on the human body, then cells science desk. Hover the mouse over each part of the cell to hear the pronunciation and read about it. Click on the red knob at the top of the page to look through a microscope at a number of slides. Click on view slide, back, and next side to move through the different ones. Very neat
2. <http://www.neok12.com/Cell-Structures.htm>  
Scroll down the page and click on 'Human Body Cell' to watch a 3-minute video.

10/18

**Digestive System**

**Prior to class:**

**Read** from your handouts "Your Digestive System"

**Complete:** see if you can label the organs on the human body picture, then answer the questions on the handout on the digestive system

**Website Resource:**

<http://www.ehc.com/vbody.asp>

This is an excellent movie that explains the parts of the digestive system. Click on digestive tract, guided tour. Click on the arrow to the right when you are finished with each page so that you can see the next one. Click on digestive tract at the bottom of the screen when you are finished with the movie. Click on 'zoom in' to see each organ closely. Click on 'organize your organs' to play the game---you will put each organ where it belongs in the digestive system.

10/25

**The Heart and Circulatory System**

*prior to class:*

**Read** from your handouts "Your Heart" & "Dr. Helen Brooke Taussig" **\*\*Note that the article on Taussig is located in the very back of your handouts!! Turn to the back!**

**Complete:** answer the questions on the handout on the heart

**Website Resources:**

<http://www.ehc.com/vbody.asp>

Click on heart at the bottom of the screen. Click on narrated tour to see an awesome movie on blood flow through the heart. Click on the arrow to the right to continue to the next page. Click on 'heart parts'. Roll the mouse over each part to see what it is. Click on 'animated heart' to watch the flow of blood through the heart.

[http://www.thetech.org/exhibits/online/topics/21a\\_flash.html](http://www.thetech.org/exhibits/online/topics/21a_flash.html)

click on the arrow at the bottom to proceed through the short question and answer movie. When this is done, click on 'heart' at the top. Click on the arrow at the bottom of the page to read about each part of the heart. Continue to click the arrow until you finish the screen where you click on the numbers at the top to watch the flow of blood.

<http://www.nlm.nih.gov/changingthefaceofmedicine/activities/circulatory.html>

Circulatory system. Read about arteries, veins, heart, lungs and other parts of the circulatory system. Read the questions and click on the body part that is the correct answer. Good site for circulatory information. Follow the red blood cell through the system several times until you know all of the answers!

11/1

**Lungs, Respiratory System*****prior to class*****Read:** from your handouts “Your Lungs”**Complete:** answer questions on the handout on the lungs**Website Resources:**[http://www.lung.ca/children/pdfs/grades4\\_6\\_how\\_we\\_breathe.pdf](http://www.lung.ca/children/pdfs/grades4_6_how_we_breathe.pdf)**A funny picture of a clown that is labeled with ‘how we breathe’ parts. Each part is explained below the picture.**<http://www.exploratorium.edu/sport/goingup/index.html>**An interesting article to find out how mountaineers adapt to breathing air with less oxygen. This is a very interesting story and worth the time to read. Explain to your children that the Indian’s name is Jesus (*Hesus*).**

11/8

**Bones, Skeletal System*****prior to class*****Read:** from your handouts “Your Bones”**Complete:** answer questions on the handout on your bones[http://www.kidshealth.org/kid/body/bones\\_SW.html](http://www.kidshealth.org/kid/body/bones_SW.html)**Click on the bone picture to see the diagram. This page is recommended just for the diagram.**<http://www.enchantedlearning.com/subjects/anatomy/skeleton/Skelprintout.shtml>**Labeled Human Skeleton**

11/15

**Muscular System*****prior to class:*****Read:** from your handouts “Your Muscles”**Complete:** answer questions on the handout on your muscles<http://www.nlm.nih.gov/medlineplus/tutorials/muscles/hm/index.htm>**Click on start tutorial to listen to an interactive explanation of muscles.**[http://www.kidshealth.org/kid/body/muscles\\_SW.html](http://www.kidshealth.org/kid/body/muscles_SW.html)<http://www.exploratorium.edu/baseball/reactiontime.html>**Many useful facts about muscles. This is an online experiment to test your reactions.**

11/22

*Thanksgiving vacation, no class*

11/29

**Brain, Nervous System*****prior to class:*****Read:** from your handouts “Your Brain”**Complete:** answer questions on the handout on your muscles<http://yucky.kids.discovery.com/flash/body/yuckystuff/funnybone/js.index.html#>**Click on nervous system, then brain to learn about them.**<http://www.enchantedlearning.com/subjects/anatomy/brain/label/lateralbrain/labelanswers.shtml>**A labeled diagram of the brain.**<http://www.enchantedlearning.com/subjects/anatomy/brain/index.shtml>**More interesting information about the brain and nervous system.**<http://www.enchantedlearning.com/subjects/anatomy/brain/Neuron.shtml>**Labeled diagram of a neuron.**

12/6

**Senses, Taste, Smell, Hear****Check out the websites on the “Our Senses” page in your handouts****Complete:** Word Search Puzzle, no other written work (*Optional—read online about ear anatomy*)**Optional pages** in the back of handouts on liver, kidney and all human body systems

12/13

**Senses, Touch, See****Check out any of the websites you haven’t had a chance to look at****No written homework this week** (*Optional—read online about eye anatomy*)

12/20 &amp; 12/27

**Christmas and New Year’s vacation. There is no homework over Christmas and New Year’s vacation. Have a great vacation as you celebrate the birth of our Lord!**