

THE HUMAN BODY

UNIT OVERVIEW

Students study the major systems of the body (Skeletal, Muscular, Respiratory, Circulatory, Digestive and Nervous systems) in this highly motivating unit. The first part, “Core Lessons”, covers the body systems with overhead student notes providing a solid foundation of information. Related activities which utilize the visual arts, creative writing, physical activity and mathematics help to solidify the concepts taught in this section. “Optional Activities” make up the second part of this unit giving teachers flexibility as the unit progresses. This mountain of innovative, time-saving teacher resources is sure to make life easier.

PART I - CORE LESSONS

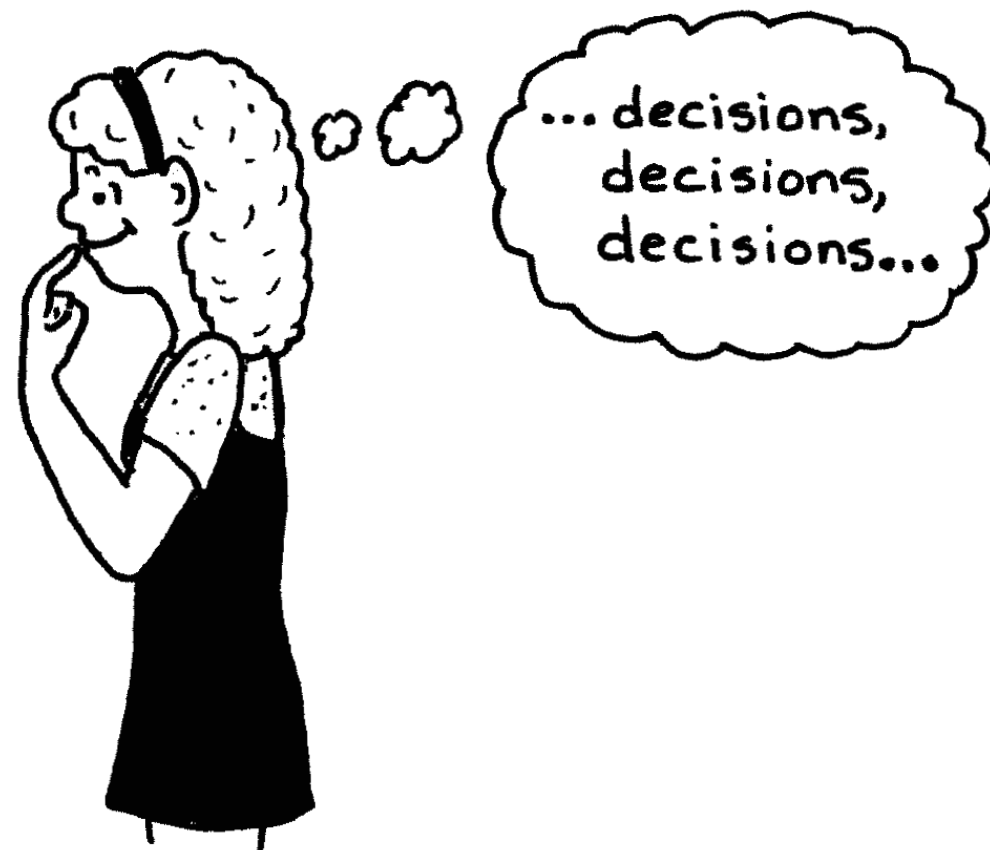
This section covers the basic body systems combining activities with student notes. The notes can be photocopied onto overhead projector transparencies, written on the board or used as handouts. Some topics may take more than one class period to complete.

- | | | |
|----|---------------------------------|---|
| 1. | The Human Body: Overview | - <i>Will the Real Body Part Step Forward, Please</i> |
| 2. | The Skeletal System | - <i>Alien X-Ray</i> |
| 3. | The Muscular System | - <i>Arnold S. - Flip Book</i> |
| 4. | The Respiratory System | - <i>How Much Air</i> |
| 5. | The Circulatory System | - <i>Taking Your Pulse</i> |
| 6. | The Digestive System | - <i>An Apple's Adventure</i> |
| 7. | The Nervous System | - <i>The Five Senses</i> |
| 8. | Liver And Kidneys | - <i>The Human Body Crossword</i> |

PART II - OPTIONAL LESSONS

These fun activities can be integrated into the unit as the teacher sees fit.

1. **Human Body Review**
2. **Disorders Of The Nervous System**
3. **Build Your Own Kidney**
4. **Pictograms**
5. **Who Am I?**
6. **Human Body Wordsearches**
7. **Fun Facts Poster**
8. **Public Health Nurse**
9. **Magic Schoolbus**
10. **Intestine Maze**





AN APPLE'S ADVENTURE

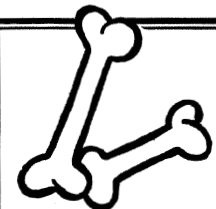
Name: _____

Instructions:

You have just picked up a beautiful, fresh apple and are about to eat it. Your job is to write the story of what happens to that apple after it leaves your hand and enters your body. You must use all of the following words of vocabulary in your story in the *proper order*, as the apple journeys through your body. The words are:

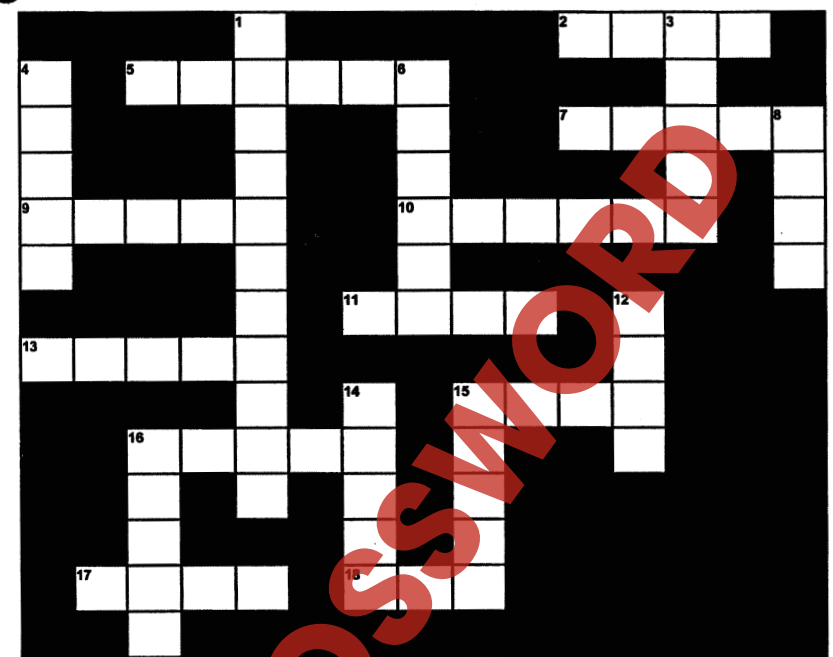
stomach, large intestine, small intestine, throat, esophagus, teeth, saliva, hydrochloric acid

Be as creative as possible!



HUMAN BODY CROSSWORD

Name: _____



Across

- 2. These help to protect your lungs and heart.
- 5. A band of strong tissue at the end of a muscle that attaches to bone.
- 7. A person breathes with these.
- 9. Bone protecting the brain.
- 10. One of the bones in the arm.
- 11. A hinge joint is located here.
- 13. This beats to create a pulse.
- 15. _____ and socket joint. (Found in the shoulder)
- 16. _____ intestine. Absorbs water from the waste during digestion.
- 17. This type of blood vessel carries "depleted" blood back to the heart and lungs.
- 18. Carry oxygen. _____ blood cells.

Down

- 1. Muscles that help with food digestion and breathing are called this.
- 3. A human skeleton has 206 of these.
- 4. A measure of how fast your heart is beating.
- 6. Another name for a nerve cell.
- 8. _____ stem. This part of the brain controls breathing and heartbeat.
- 12. Produced in the liver.
- 14. Large bone in the leg.
- 15. Carries food and oxygen to all parts of the body.
- 16. A cleaning and sorting center for the body.



NERVOUS SYSTEM RESEARCH

Name: _____

Name of Disorder: _____

Describe the disorder and what it does.

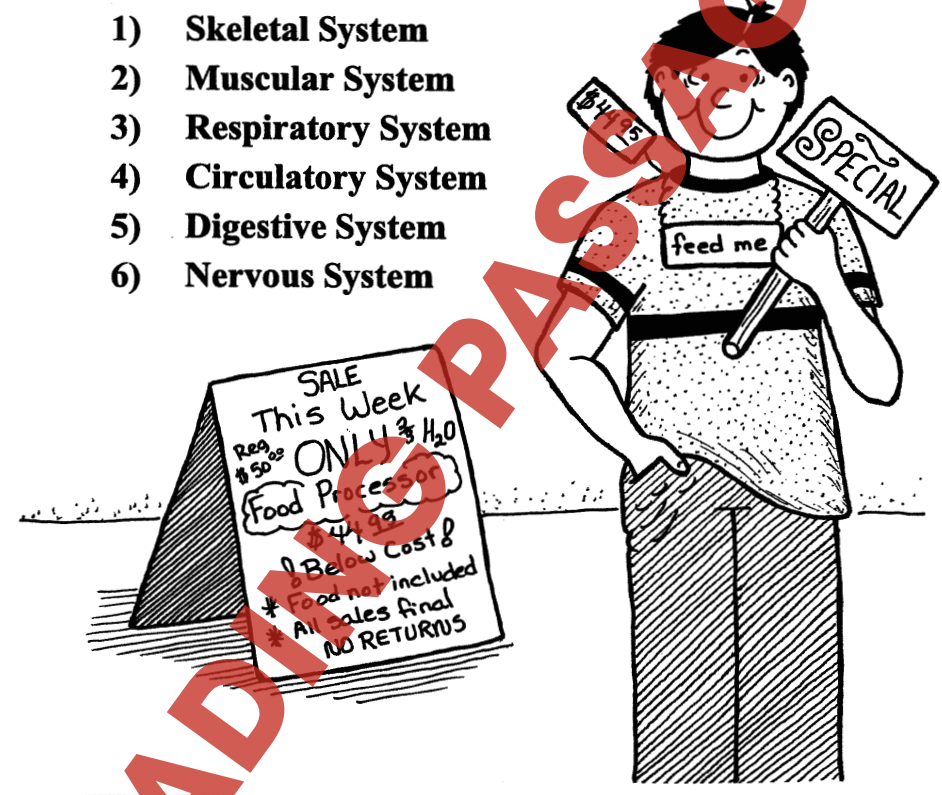
Other questions that you may wish to answer include:

- 1) How many people in Canada have this disorder?
- 2) How is the disorder treated? Are there cures?
- 3) How can people avoid getting this disorder?
- 4) Which people are most likely to get this condition?
- 5) Is there any other interesting information that you found?

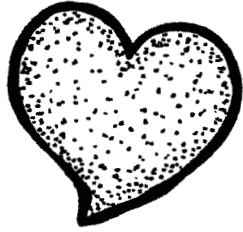
THE HUMAN BODY

The way you look, compared to other people, can be very different on the outside. However, on the inside, our bodies all contain the same basic features. A variety of systems work together to help you live and grow. These systems are:

- 1) Skeletal System
- 2) Muscular System
- 3) Respiratory System
- 4) Circulatory System
- 5) Digestive System
- 6) Nervous System



Factfile: The most common substance in the human body is water, which makes up nearly 2/3 of a person's bodyweight. In fact, to buy all the ingredients needed to build a "complete" human being, would only cost about \$180.00 - materials only!



HUMAN BODY WORDSEARCH

Name: _____

B O P U L S E V E I N P E U W
 I H M R N D E P P O F N F L A
 L Z Y I C R D J I H E A R T R
 E L K J D O I T G D X F R U E
 D S P V O A A J L E E O F V P
 W J O L R L P R O M A R R O W
 L S B P U C H K T I F E M U R
 T B K C H R R G T E N T N I Q
 K K R E F A A F I E R T D J S
 Q I B A L C G C S Z E Y U Y M
 C M D Z I E M U S C L E B F M
 H X H N I N T E S T I N E U R
 K H M C E J W O L X V Q M O M
 J Z I O X Y G E N Q E Z Y J V
 T U U T S B N Z R M R V Z Z O

Aorta
 Brain
 Epiglottis
 Kidney
 Muscle
 Marrow

Artery
 Circulation
 Esophagus
 Liver
 Nerve
 Vein

Bile
 Diaphragm
 Femur
 Skin
 Oxygen
 Joint

Blood
 Epidermis
 Heart
 Intestine
 Skeleton
 Pulse

ANSWER KEY

ANAL LESSON #6: HUMAN BODY WORDSEARCHES

Two wordsearches have been included - one on the whole "Human Body" and one the "Bones and Muscles".

Solutions

B O P U L S E V E I N P E U W
 I H M R N D E P P O F N F L A
 L Z Y I C R D J I H E A R T R
 E L K J D O I T G D X F R U E
 D S P V O A A J L E E O F V P
 W J O L R L P R O M A R R O W
 L S B P U C H K T I F E M U R
 T B K C H R R G T E N T N I Q
 K K R E F A A F I E R T D J S
 Q I B A L C G C S Z E Y U Y M
 C M D Z I E M U S C L E B F M
 H X H N I N T E S T I N E U R
 K H M C E J W O L X V Q M O M
 J Z I O X Y G E N Q E Z Y J V
 T U U T S B N Z R M R V Z Z O

O S M O P E C T O R A L I S X
 R R T U Q T R A P E Z I U S Z
 W O R P A T E L L A X M B W T
 U C I J T Q U A D R I C E P S
 B A C K B O N E I X Q J A B Y
 J L E Y T I P H A L A N G E S
 W F P X M S V M P F L M R P R
 D K S O I P S S H U S O E E S
 F E D V H U M E R U S C T B Q
 F B L Y E A S U A G I E I U X
 A E Z T L U M X G B S R B I P
 P M U U I E H A M S T R I N G
 E L B D F O S C A P U L A Q K
 G I A K A B D M F D O K W Y Z
 F R P W G V I P G C C U H O M