

Science 9 - Unit 2—Your Living Body

Unit Outline

Topic	Activity
Nutrition	Read Section 6.1 on p. 100-101 Do Review 6.1 Questions 1-4 on p. 101
Carbohydrates	Read p. 102-103 and do Worksheet 6-1 Carbohydrates Do Experiment 6-1—Testing for Carbohydrates
Fats	Read p. 103-105 and do Worksheet 6-2 Fats Do Experiment 6-2—Testing for Fats Do Review 6.2 Questions 1-5 on p. 106-107. (point form) Video “The Cholesterol Factor”
Proteins	Read p. 107-109 and do Worksheet 6-3 Proteins Do Experiment 6-3—Testing for Proteins Do Review 6.3 Question 1-4 on p. 111 (point form)
Vitamins and Minerals	Read p. 111-115 and do Worksheet 6-4 Vitamins and Minerals Do Experiment 6-4—Testing for Vitamin C Do Review 6.4 Questions 1-5 on p. 115 (point form)
Water and Fibre	Read p. 116-118 and do Worksheet 6-5 Water and Fibre Do Activity 6D—Sell That Nutrient!
Food Processing	Read p. 118-124 and do Worksheet 6-6 Food Processing See Video “Inside a Meat Processing Plant” See Video “ Food Preservation (#260)”
Nutrition and World Health	Short Class Discussion on Malnutrition and world health issues.
Review and Test on Chapter 6	Review “Key Ideas” on p. 129-130. Do the “Vocabulary” on p. 130 and Do Connection Questions C1-C10 on p. 130 Test on Chapter 6—Nutrition
Introduction to Digestion The Mouth and the Esophagus	Introduction to ongoing poster project on systems of the body. Discussion and notes on digestion in the mouth and the esophagus followed by work on poster. (p. 134-137) Do Review 7.1 Questions 2-5 on p. 138 Do the Lab “An Enzyme at Work” given on a handout.

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The Stomach	Discussion and notes on digestion and storage in the stomach followed by work on poster (p. 138-139) Do Review 7.2 Questions 1-5 on p. 139 Do Worksheet 7-1—Mouth Esophagus and Stomach
The Intestines	Discussion and notes on the Small Intestine and Digestion followed by work on poster (p. 140-143) Discussion and notes on the Large Intestine and Elimination followed by work on poster (p. 143-144) Do Review 7.3 Questions 1-6 on p. 145
The Whole Digestive System	Discussion and notes on Taking Care of the Digestive System. (p. 145-147) Video on Digestion (#61) and/or “The Food Machine”
Review and Test on Chapter 7 – Digestion	Class Review of Key Ideas and Vocabulary on p. 148. Do Connection Questions C1-C7 on p. 148-149. Test on Chapter 7—Digestion
Introduction to the Respiratory System	Discussion and notes on the Need to Breathe, Cellular Respiration and Breathing Rate. (p.151-153) Do Activity 8B—Carbon Dioxide and Breathing Rate on p. 153-154.
How You Breathe	Discussion and notes on the Lungs and the Chest Cavity and demonstration of Lung Model followed by work on poster. (p. 154-157) Do Review 8.2 Questions 1-3 on p. 159
A Single Breath	Discussion and notes on From Nose to Lungs, Exchange of Gases in the Alveoli and the Amount of Air in a Breath and Residual Air, followed by work on poster. (p. 159-164)
Vital Capacity	Do Activity 8E—Vital Capacity on p. 162-164 Do Review 8.3 Questions 1-5 on p. 164
Taking Care of the Respiratory System	Discussion and notes on harmful substances and smoking. (p. 165-167) Demonstration of the “Smoking Machine” Do Review 8.4 Questions 1-4 on p. 167 Videos on Respiration (#67) and/or “Breath of Life”
Review and Test on Chapter 8 – The Respiratory System	Review Key Ideas and do Vocabulary on p. 168. Do Connection Questions C1-C5 on p. 158 Test on Chapter 8—Respiration

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Blood	Discussion and notes on Blood (p. 171-173) Do Review 9.1 Questions 1-5 on p. 173
Your Blood Vessels	Discussion and notes on Blood Vessels, followed by work on poster (p. 174-176) Do Activity 9B—Arteries and Veins p. 176-177 Do Worksheet 9-1—Blood and the Circulatory System
Carrying Oxygen and Wastes	Discussion and notes on Carrying Oxygen and Wastes (p. 177-179) Do Review 9.2 Question 1-4 on p. 179
Your Heart	Do Written Assignment on the Heart Discussion and notes on The Structure of Your Heart followed by work on poster. (p. 179-182) To view an animation of what happens in a heart beat, Go to the site: http://www.pbs.org/wgbh/nova/heart/heartmap.html To view pictures of a heart dissection Go to: http://www.heartlab.rri.on.ca/dissection/dissection.html (You can click on the images to make them bigger!) See Videos – The Heart (An inside story) and/or - The Human Pump
Heart Rate	Short Discussion on Heart Rate (p. 182) Do Activity 9C—Changing the Beat (p. 184-185)
Keeping the Circulatory System Healthy	Discussion and notes on Heart Attack, Arteriosclerosis and High Blood Pressure.
The Liver and Excretory System	Discussion and notes on the Liver and the Excretory System (p. 188-189)
Frog Dissection	Do the Frog Dissection as directed by the teacher.
Review and Test on Chapter 9 – Circulation and Excretion	See the Video—Circulatory System (#60) Review Key Ideas and Vocabulary on p. 190 Do Connection Questions C1-C5 on p. 191 Do Test on Chapter 9—Circulation and Excretion

