

Principles of Biomedical Science Pacing Guide: AHS 1-Year Science Elective

Month	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE
	<p><b><u>Unit 1</u></b> <b>The Mystery</b></p> <p><b><i>Lesson 1.1 Investigating the scene</i></b></p> <p>Activity 1.1.1 A Mysterious Death</p> <p>Activity 1.1.2 Examining the Scene</p> <p>Activity 1.1.3 Careers in Biomedical Science</p> <p>Activity 1.1.4 The Evidence</p> <p>Activity 1.1.5 Time of Death</p>	<p>Project 1.1.6 Blood Spatter Analysis</p> <p><b><i>Lesson 1.2 DNA Analysis</i></b></p> <p>Activity 1.2.1 What is DNA</p> <p>Activity 1.2.2 DNA Extraction</p> <p>Activity 1.2.3 DNA Analysis</p> <p><b><i>Lesson 1.3 The Findings</i></b></p> <p>Activity 1.3.1 The Autopsy</p> <p>Activity 1.3.2 Confidentiality</p> <p>Activity 1.3.3 What is a Crime?</p>	<p><b><u>Unit 2</u></b> <b>Diabetes</b></p> <p><b><i>Lesson 2.1 What is Diabetes?</i></b></p> <p>Activity 2.1.1 Diagnosing diabetes</p> <p>Project 2.1.2 The insulin glucose connection</p> <p>Activity 2.1.3 Feedback</p> <p>‘</p> <p><b><i>Lesson 2.2 The Science of food</i></b></p> <p>Project 2.2.1 Food Testing</p>	<p>Activity 2.2.2 Food Labels</p> <p>Activity 2.2.3 The Biochemistry of food</p> <p>Activity 2.2.4 Energy in food</p> <p><b><i>Lesson 2.3 Life with diabetes</i></b> A</p> <p>Activity 2.3.1 A day in the life of a diabetic</p> <p>Project 2.3.2 Diabetic emergency</p> <p>Activity 2.3.3 Complications of diabetes</p>	<p>Activity 2.3.4 The future of diabetes... Management and treatment</p> <p><b><u>Unit 3</u></b> <b>Sickle Cell Disease</b></p> <p><b><i>Lesson 3.1 The Disease</i></b></p> <p>Activity 3.1.1 Blood detectives</p> <p>Activities 3.1.2 Sickle Cell Diaries</p> <p><b><u>SEMESTER 2</u></b></p> <p><b><i>Lesson 3.2 It's in the genes</i></b></p> <p>Activity 3.2.1 Protein synthesis</p> <p>Activity 3.2.2 The genetic code</p>	<p>Activity 3.2.3 Does changing one nucleotide make a big difference?</p> <p><b><i>Lesson 3.3 Chromosomes</i></b></p> <p>Activity 3.3.1 How is DNA passed through the generations?</p> <p>Activity 3.3.2 Chromosomes: A closer look</p> <p>Activity 3.3.3 The immortal cells</p> <p><b><i>Lesson 3.4 Inheritance</i></b></p> <p>Activity 3.4.1 Family inheritance</p> <p>Activity 3.4.2 What's the probability?</p> <p>Activity 3.4.3 World distribution of sickle cell diseases</p>	<p><b><u>Unit 4</u></b> <b>Heart Disease</b></p> <p><b><i>Lesson 4.1 Heart Structure</i></b></p> <p>Activity 4.1.1 Path of blood in the heart</p> <p>Activity 4.1.2 Anatomy of the heart</p> <p><b><i>Lesson 4.2 Heart Health</i></b></p> <p>Project 4.2.1 Heart rate</p> <p>Project 4.2.2 Blood pressure</p> <p>Activity 4.2.3 EKG</p> <p><b><i>Lesson 4.3 Heart dysfunction</i></b></p> <p>Project 4.3.1 What is cholesterol?</p> <p>Project 4.3.2 Hypercholesterolemia</p> <p>Problem 4.3.3 The heart as a pump</p> <p><b><i>Lesson 4.4 Heart intervention</i></b></p> <p>Project 4.4.1 Unlocking the vessels</p>	<p><b><i>Lesson 4.4 Heart intervention</i></b></p> <p>Project 4.4.1 Unlocking the vessels</p> <p>Project 4.4.2 Heart disease intervention</p> <p><b><u>Unit 5</u></b> <b>Infectious Disease</b></p> <p><b><i>Lesson 5.1 Infection</i></b></p> <p>Activity 5.1.1 Contagious</p> <p>Activity 5.1.2 Infectious disease agents</p> <p>Project 6.1.1 How do parts make the whole?</p> <p>Activity 6.1.2 How did she die?</p>	<p>Activity 5.1.3 Isolating bacteria</p> <p>Activity 5.1.4 Gram staining</p> <p>Activity 5.1.5 Bacterial Identification</p> <p>Project 5.1.6 Lines of defense</p> <p><b><u>Unit 6</u></b> <b>Post Mortem</b></p> <p><b><i>Lesson 6.1 Post Mortem</i></b></p>	<p>End Of Course (EOC) assessment Review</p> <p><b>EOC Assessment</b></p>

