

LS-HHMI Outreach Summer Curriculum Project Classroom Resource Information Form

Title	Sugar Sweetened Beverage Treasure Hunt		
Resource Type	Lesson Plan <input checked="" type="checkbox"/> Activity <input type="checkbox"/> Lab Activity <input type="checkbox"/> Homework Assignment <input type="checkbox"/> Correlations <input type="checkbox"/> Other <input type="checkbox"/> <Specify>		
Description	Students will examine energy consumption, conversion and usage as it pertains to sugar sweetened beverages. Students will explore what macromolecules are in their beverage and how the body converts the nutrients into chemical energy that can be used by the cell through the process of cellular respiration. Students will also explore energy storage and how simple decisions may have a large effect on overall health.		
Author(s)	Tammy L. Due		
Author Institution(s)	Masconomet Regional High School		
Objective	The objective of this lesson is to connect nutrition, biochemistry and energetics in an informative, interesting and personal way.		
Key Concepts	Nutrition Biochemistry/Macromolecules Energetics/Cellular Respiration		
Student Prep	This activity is designed to determine the students' prior knowledge and allow for exploration of difficult concepts using cooperative learning, modeling and computer resources.		
Materials	Student manipulatives Computers		
Grade Level(s)	General Biology (10 th grade)		
Teacher Prep Time	1/2 hour	Class Time	Two 50 minute periods
National Standards	Content Standard C		
State Standards	Chemistry of Life: 1.2 Cell Biology: 2.1, 2.4 and 2.5 Anatomy and Physiology: 4.1		
Sources	<If the resource is derived or adapted from previously published material, cite the source(s) here.>		
References	<Cite any other sources that you referred to when developing the resource.>		

Assessment	The content can be incorporated into a traditional quiz or test but there is also the opportunity to have a differentiated assessment where students choose their final question to explore.
-------------------	--