

C² Pipeline Enrichment Activity Plans Overview



Enrichment	The Science of Alcohol
Title	The science of Alcohol
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Description:	Students will learn about alcohol and alcoholism based on scientific research
Enrichment	Students will understand how the use of alcohol effects their brains, organs,
Goal/Objectiv	and the risks associated with its use
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Evidence of	Students will draw conclusions regarding the properties of liquids and
Understandin	solutions.
g/	Students will demonstrate how alcohol effects the heartbeat of Daphnia.
Competency	Students will understand the short- and long-term effects of alcohol on
Compatency	different body systems.
Grant	□ Family Engagement
	☐ Summer Program
Alignments &	☐ Special Event
Objectives	□ SY Program □ School Linkage (eg, Dual Enrollment)
Addressed	□ Other STEM Lab Activities
Partner	Nursing Nursing
Pathway	□ Medicine
latilitay	☐ Business ☐ Social Work
	☐ Engineering
	Pharmacy & Health Science
	☐ Dental ☐ Engineering & Technology
Career	☐ Engineering & Technology ☐ Health Care
Pathway	□ Science
	□ Social Services
Academic	□ Business • Core Academic Area / Class:
	☐ Math (e.g., Algebra, statistics, calculus)
Subjects/Con	☐ Science (e.g., Chemistry, Biology) – Chemistry, Biology
nection to	☐ Social Studies (e.g., Government, Economics)☐ ☐ Language
School Day	☐ Language ☐ CTE (e.q., Marketing, Theater, Newspaper, Child Development, Accounting)
	□ ELA/Reading
Standards to	• NGSS
Address	• GLECS
Address	
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Duration of	• 8-10 Weeks
Enrichment	
Frequency of	Meets one time per week
Enrichment	



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Week by Week Timeline SUGGESTED ACTIVITIES	 Activities by session – Should all be completed in the order listed below Week 1: Assess prior knowledge about alcohol and watch 4 short videos about Alcohol and the Teenage Brain at https://www.youtube.com/watch?v=g2gVzVIBc_g&index=1&list=PLN 1Ld0n9qR3LdrrDMRTtdzBEs7PR58FTE Week 2: Liquids – observe physical properties (evaporation time, shape, ability to dissolve sugar, density, etc.) – THIS CAN BE DONE AT THE STEM LAB Week 3: Solutions – create a formula to produce long lasting bubbles – THIS CAN BE DONE AT THE STEM LAB Week 4: Measure the effects of alcohol on Daphnia (CAN BE DONE AT THE STEM LAB or can view a video of this lab) Week 5: Somebody's Body – Predict effects of alcohol on body systems Week 6: Alcohol is a chemical – Case study to identify alcohol based on chemical structure+ Week 7: Estimating Risk – compare estimates to real probabilities Week 8 – One in a Thousand – Effects of alcohol on the human body focusing on blood alcohol content Week 9: What about Alcohol – reexamine pre-assessment using
	knowledge gained during this unit
Educational	Baylor College of Medicine
Research	
Additional	 YouTube – Alcohol and the Teenage Brain - https://www.youtube.com/watch?v=q2qVzVIBc_q&index=1&list=PLN1LdOn9qR3LdrrDMRTtdzBEs7PR58F
Resources	TE
Used	•