

A LAB-BASED EXPERIENCE

ASK, LISTEN, LEARN: HOW ALCOHOL AFFECTS THE DEVELOPING BRAIN

Overview

In this Virtual Lab, you will investigate how alcohol affects the developing brain.

Questions

1. What does it mean when adults say that a kid’s brain is “still developing?”
2. Why do you think it is extra-important to protect a developing brain?
3. The cerebral cortex is the brain’s outermost layer. It is made up of four different lobes. What are some of the different functions that these lobes are responsible for?
4. In this Virtual Lab, you used Sim to see how alcohol affects a developing brain. What changes did you notice in thinking and behavior when alcohol was involved?
5. Based on your results, how could an impaired developing brain impact the safety and performance of both the kid and those around them?

Quick Tips



To review your results at any time, click on the **Clipboard icon** and use the drop-down menu to view your results for each part of the brain. You can also toggle to the Graph tab to see your results in graph form.



Click the **Lab Notes** icon at any time to answer questions about your lab. You may need to refer to your data or run more trials.

Observations

Use this space to take notes on each of your trials.

Experiment Results—How Alcohol Affects the Developing Brain

Brain Section	Challenge Level	With Alcohol	Without Alcohol
Central Nervous System	Level 1	Results:	Results:
	Level 2	Results:	Results:
Cerebral Cortex	Level 1	Results:	Results:
	Level 2	Results:	Results:
Cerebellum	Level 1	Results:	Results:
	Level 2	Results:	Results:
Hippocampus	Level 1	Results:	Results:
	Level 2	Results:	Results: