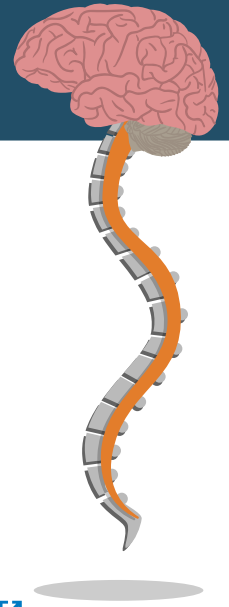


# ALCOHOL AND YOUR DEVELOPING CENTRAL NERVOUS SYSTEM

## Central Nervous System

Length: 30-40 minutes | Designed for 5th and 6th grade



### Summary

This lesson is intended to further student's understanding of the central nervous system, neurotransmission, and how alcohol subsequently impacts function. In order to help students comprehend a complex topic, this lesson allows them to use their creativity and language skills with the scientific content.

### Objectives

- Conceptualize the functions of the central nervous system
- Describe the functions of neurotransmitters
- Communicate the way in which alcohol slows the central nervous system and identify specific effects it has on the body
- Understand that different factors, like weight and gender, contribute to the impact of alcohol on the body

### Vocabulary

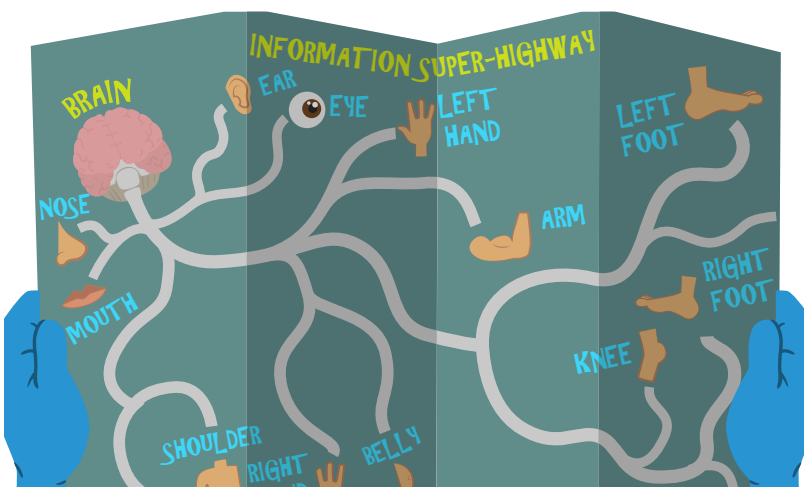
- central nervous system
- spinal cord
- impaired
- reaction time

### What you'll need

- [Central Nervous System Comprehension Questions](#)
- [Central Nervous System Vocabulary Cards](#)
- [Kahoot! Games \(Optional\)](#)

### Comprehension Questions

- What parts of the body make up the central nervous system?
- What is a neurotransmitter?
- What are some of the physical effects of alcohol?
- Does alcohol affect everyone in the same way?



### For your next class...

How Alcohol Affects Your Cerebellum [\[Link\]](#)

To learn more about teaching units on the impacts of underage drinking and peer pressure, see additional lessons from *Ask, Listen, Learn*

[See all lessons](#)



For more info head to [AskListenLearn.org](https://www.AskListenLearn.org)

- 1 Introduce the unit by playing the video, **"How Alcohol Affects Your Central Nervous System"**. Have the "class neurotransmitter" (one student chosen at random) pass out the comprehension questions to all students (neurons).  
**2 minutes**
- 2 When the video is over, have the students get into groups to discuss the questions. Have volunteers share their answers with the rest of the class.  
**5 minutes**
- 3 Ask students if they can recall the metaphor used to explain alcohol being introduced to the central nervous system.  
**2 minutes**
- 4 Activity: *Central Nervous System Metaphor Skit*  
**15 minutes**
- 5 Activity: *Neurotransmission Matching Cards*  
**5 minutes**
- 6 Bring the class together and reiterate the process of neurotransmission, or show the video again. Ask students why they think weight, gender, and how much you drink might affect how slow the central nervous system gets with alcohol.  
**3 minutes**
- 7 Have students answer the question, "What impacts how alcohol affects the central nervous system?"  
**5 minutes**
- 8 Bring class back together to review.  
**2 minutes**
- 9 Have new "class neurotransmitter" pass out the vocabulary cards. For homework, ask the students to rewrite definitions for the vocabulary in their own words, and draw a picture to help them remember.
- 10 Pass out index cards and ask students to write down two things they learned and one thing they would like

## ACTIVITY IDEAS

### Central Nervous System Metaphor Skit


- 1 Have students get into groups or pairs and create their own metaphor to explain what happens when alcohol meets the central nervous system. Have the students create and write out brief skits to present their metaphor to the class.  
**5 minutes**
- 2 Regroup with the entire class and have each group perform their skit and explain why this particular metaphor describes what happens when alcohol is introduced to the central nervous system.  
**10 minutes**

### Neurotransmission Matching Cards

(5 minutes)

- 1 There are seven sets of cards in trios. Pass out sets students in groups of 3-4.
  - Word
  - Definition
  - Image from the video
- 2 Students will mix up all of the cards on their desks and place them facedown. Players will take turns flipping the cards, trying to make correct matches of three. Whichever group has the most correct trios in 5 minutes wins!

### For your next class...

How Alcohol Affects Your Cerebellum 

To learn more about teaching units on the impacts of underage drinking and peer pressure, see additional lessons from *Ask, Listen, Learn*

[See all lessons](#)



For more info head to [AskListenLearn.org](http://AskListenLearn.org)