

Pre-trip preparation for Inside Out: Your Brain – Grades 5-6

Dive into some surprising physiology. Humans have five sense? You thought wrong! Students will be amazing to learn how many senses we actually have! Hands on experiments demonstrate some of the most surprising ones.

Nevada Academic Content Standards in Science (NGSS): MS-LS1-3

Use argument supported by evidence for how the body is a system of interacting subsystems composed of groups of cells.

Nevada Academic Content Standards in Science (NGSS): MS-LS1-8

Gather and synthesize information that sensory receptors respond to stimuli by sending messages to the brain for immediate behavior or storage as memories.

During your Discovery Class students will be expected to:

- Sit in groups of 4 students per table.
- Students should be prepared to give their full attention to the Lab instructors when given the quiet signal.
- Work cooperatively with one another at the table.
- Follow the hands-on procedures just as the Lab teacher or assistant explains them.
- Handle materials and equipment carefully.

It is important that teachers and chaperones:

- Help focus the student's attention.
- Assist students with lab activities through questioning allowing the student to do the actual building and decision making. For example a parent might ask, "I see your base is shaky, what could you do to strengthen it?"
- Engage students at a higher level by asking open-ended questions throughout the class.
For example: "Why did you choose ___?"
- Turn off cell phones and other electronic devices during the class.

Literary connection:

To get students excited about the upcoming Discovery lesson we suggest reading experts from the following book with your students: *The Great Brain Book, An Inside Look at the Inside of Your Head* by Keith Kasnot – The anatomy, functions, surgery, care and feeding, historical discovery, and imminent improvements of this complex and powerful organ.

