



# South Carolina

**Full STEAM Ahead:**

**Connecting Library of Congress Primary Sources and Graphic Novels**

## Lesson Plan Template

**Author(s): Hope Shirley and Susan Moore**

**Grade Level(s): 4th Grade**

**Subject: Science**

**Length of Class: 45 mins**



**Image Citation:**

<https://scitechdaily.com/neuroscientists-uncover-why-the-brain-enjoys-music/>

**Lesson Title:**

The Brain and Our Senses

**Overview:**

The teacher will show the students a video of a MRI scan of a brain listening to music. The students will discuss how the brain is processing this information. The teacher will assign the student groups pages to read in the book *Science Comics The Brain*. After reading, the students will draw a diagram explaining how information is received in each of the five senses and how the information responds and processes the information through the brain.

|   |  |
|---|--|
| <b>Learning Objective:</b>                    | The students will be able to describe how animals receive and process information in their brain by reading specific pages assigned in Science Comics The Brain The Ultimate Thinking Machine and creating a diagram of how the brain processes and responds to information through each of the five senses. |
| <b>Standards:</b>                             | 4-LS1-2. Use a model to describe that animals receive different types of information through their senses, process the information in their brain, and respond to the information in different ways.   |
| <b>Essential Question:</b>                    | How is information received and processed in the brain?  |
| <b>Supporting Question(s):</b>                | What are the 5 senses?<br>How does the brain process information or stimuli?<br>How does the brain respond to information or stimuli   |
| <b>Digital Primary and Secondary Sources:</b> | <a href="https://youtu.be/jkMlOrxYqWA?si=iB4BSGvES9qhjY57">https://youtu.be/jkMlOrxYqWA?si=iB4BSGvES9qhjY57</a>  |
| <b>Required Classroom Materials:</b>          | Book <i>Science Comics The Brain The Ultimate Thinking Machine</i> , video of brain listening to music, computer, poster paper, markers  |
| <b>Classroom Environment:</b>                 | Open Classroom, group seating  |
| <b>Differentiation and Adaptations:</b>       | The students will be grouped with other peer students  |

### Lesson Sequence/Procedures

| Lesson Sequence/Procedures |   |
|----------------------------|---|
| Estimated Time Needed      | Detailed Description of Teaching and Learning |
|                            |   |

|         |   |
|---------|---|
| 10 mins | The Teacher will show the class a video of the brain listening to music. The class will discuss what they see in the video and discuss what and how the brain is processing the information.  |
| 30 mins | The students will be split into 5 groups. Each group will be assigned pages to read from the book. Sight pgs 66-72, Touch pgs 73-77, Smell pgs 78-79, Taste pg 80 and Hearing pags. 81-87. After reading the assigned pages, the groups will create a diagram of how the brain processes and responds to information through their sense. |
| 10 mins | The groups will present their assignment and the teacher will grade each group using a teacher made rubric.   |
|         |   |

|                             |  |
|-----------------------------|--|
| <b>Assessments:</b>         | Informal evaluation. The students will receive feedback by teacher conferences and rubric evaluation |
| <b>Learning Extensions:</b> | Students can research different ways the brain reacts to information received through the senses.    |