



Grade 8 Sample Lesson Plan: Unit 4 – The Brain

SOLs

- 8.1 The student will identify and explain health concepts to demonstrate an understanding of personal health.
- A) Identify and describe the major structures and functions of the brain and the nervous system

Objectives/Goals

- The student will be able to:
 - Name and identify the major structures of the brain,
 - Identify the protective structures surrounding the brain,
 - Label a diagram of the brain,
 - Describe the major disease and injuries affecting the brain,
 - Explain how to maintain a healthy brain

Materials

- Brain Power Point
- Blank paper
- Color pencils
- Copy of the power point study guide

Procedure

- **Introduction:** Students will complete the Brain concept map pre-assessment diagram.
- **Instruction:** Teacher will review with students the Brain powerpoint presentation,
- **Guided Practice:** Students will complete the power point study guide during teacher presentation.
- **Independent Practice:** Students will create a drawing of the brain and it's major components including the names of the major anatomical components and their functions.

- Students will label each component with a different color and write the anatomical function with the same color.
- Students will create a summary paragraph explaining how to maintain the health of their brain and how they plan to incorporate activities to maintain their brain health.
- **Closure:** Students will complete the post assessment brain concept map activity.

Assessment Idea

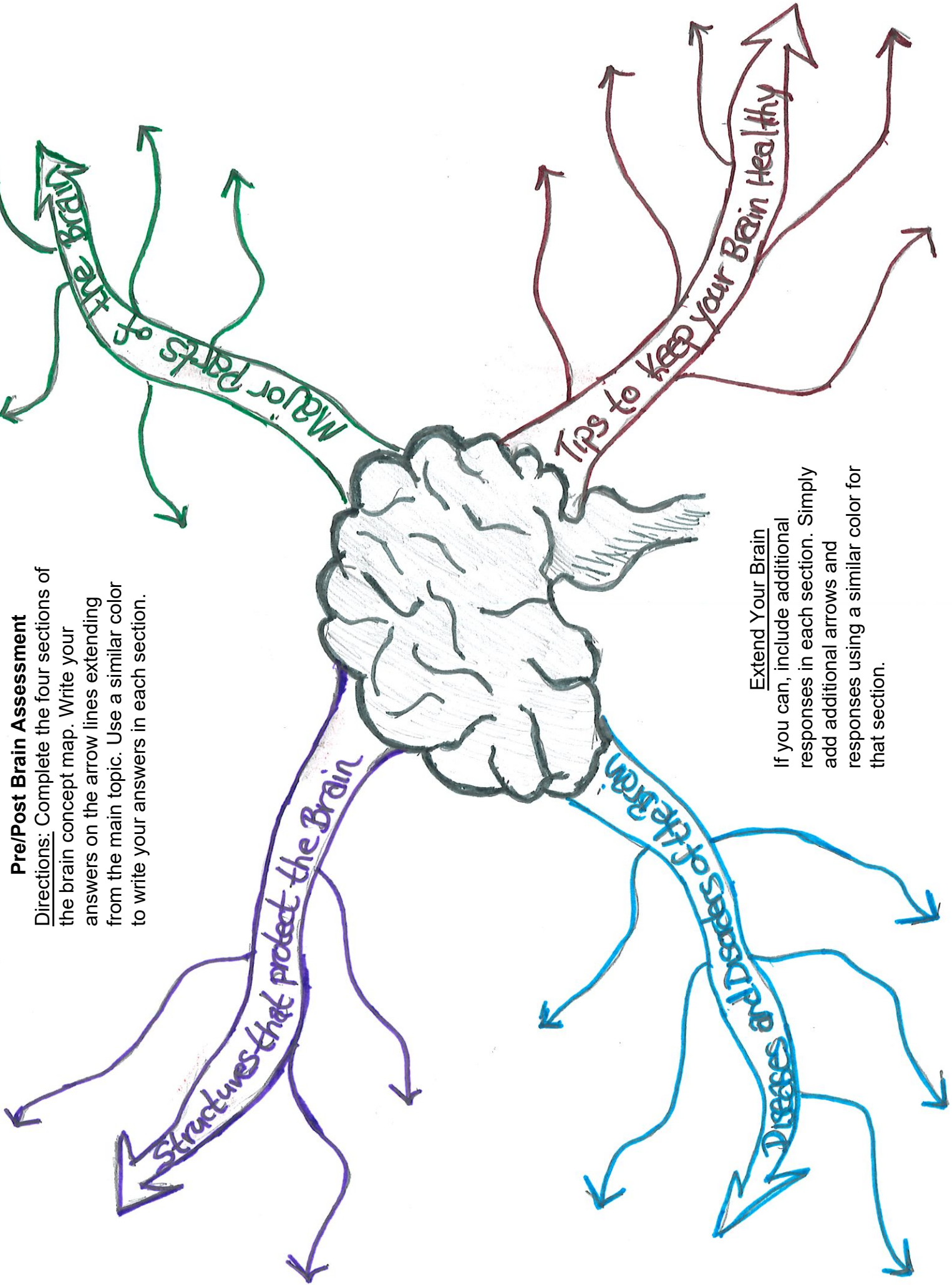
- Brain power point presentation
- Brain power point study student guide hand out
- Student pre and post assessment brain concept map activity
- Student brain diagram activity
- Student brain health summary paragraph.

Handout

The next page includes a handout for the lesson. The handout is designed for print use only.

Pre/Post Brain Assessment

Directions: Complete the four sections of the brain concept map. Write your answers on the arrow lines extending from the main topic. Use a similar color to write your answers in each section.



Extend Your Brain

If you can, include additional responses in each section. Simply add additional arrows and responses using a similar color for that section.

The Brain Power Point Study Guide



I. Define and Describe the Primary function of the:

➤ Parietal Lobe: _____

➤ Occipital Lobe: _____

➤ Frontal Lobe: _____

➤ Temporal Lobe: _____

➤ Brain Stem: _____

➤ Cerebellum: _____

➤ Cerebrum: _____

II. Brain Protectors: Provide a detailed definition

➤ Skull or Cranium _____

➤ Under lying Tissues _____

➤ Cerebrospinal Fluid _____

III. Brain Diseases: Describe symptoms of:

➤ Meningitis : _____

➤ Encephalitis: _____

➤ Parkinson's Disease: _____

➤ Brain Abscess: _____

➤ Alzheimer's Disease: _____

➤ Epilepsy: _____

➤ Stroke: _____

➤ Brain Tumor: _____

➤ Autoimmune Conditions: _____

➤ Lou Gehrig's Disease: _____

IV. **Brain Injuries:** Explain the following, to include mechanism of injury, signs and symptoms following injury and recovery cycle:

➤ Traumatic Brain Injury –

➤ Concussion –

➤ Symptoms of a brain injury -

V. **Brain Health Summary Activity**

- Write a summary paragraph concerning the ways to keep your brain healthy and young throughout your life.
- Include the ways **you** plan to help keep your brain healthy.
- Provide examples of what you are currently doing to keep your brain healthy.
- Highlight or circle all brain vocabulary words you use in your summary paragraph.
