

# All About BRAINS



✓ LESSON PLANS

✓ GUIDING QUESTIONS

✓ INVESTIGATIONS



## Planning Page - All About Brains

- Recommended Supplies:**
- elbow models (booked)
  - gelatin
  - zip-top bag - gallon size
  - file folder
  - print-outs from this resource
  - books about the brain (recommendations given)
- Hands-on Learning**
- Partner up for some memory games for this science center and make a brain with noodles and gummi! Children will love investigating and learning about the brain!
- Learning Objectives:**
- The students will use simple investigation tools to make observations.
  - The students will develop questions based upon observations.
  - The students will observe objects with curiosity.

## Guiding Questions - All About Brains

- What does the brain do?**
- The brain helps us:
- think
  - feel
  - learn
  - remember
  - move
  - talk
  - breathe
  - digest our food
- How can we protect our brain?**
- If we are riding our bikes or skateboarding, we can wear a helmet to protect our brain to ease we fall. The brain is the command center of our bodies, so we need to do everything we can to protect it.
- How can we keep our brain healthy?**
- get plenty of sleep
  - wear a helmet for protection against falls from things like base riding, acting, and skateboarding
  - eat a healthy diet
  - get regular exercise
- How does my brain tell my body what to do?**
- Brain creates energy to run a muscle. Brain produces a message that tells your body what to do.

## Matching Game - All About Brains

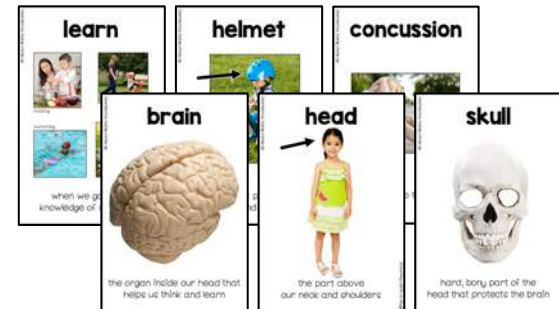
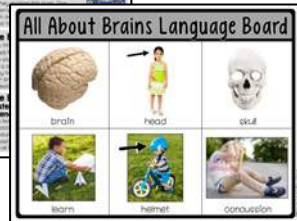
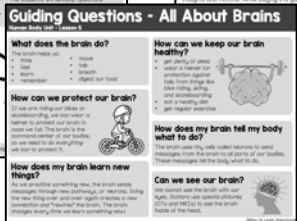
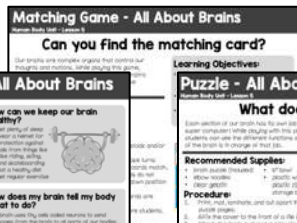
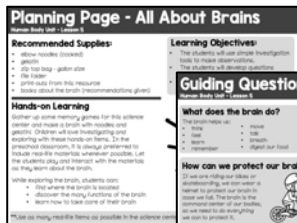
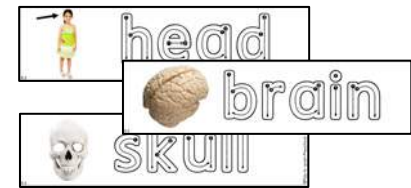
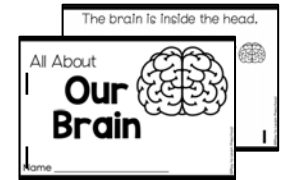
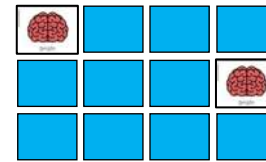
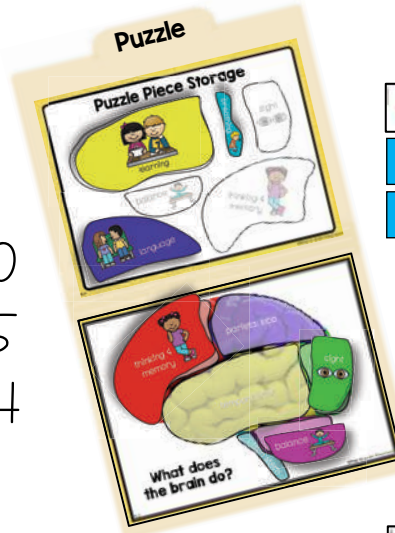
- Can you find the matching card?**
- Learning Objectives:**
- The students will use visual discrimination (matching) skills to identify two identical objects.
  - The students will show persistence in approaching tasks.
  - The students will work on a task through completion.
- Recommended Supplies:**
- memory cards
  - flat playing surface
- Procedure:**
1. Print the picture cards. Sort onto cardstock and/or laminate as desired. Cut apart.
  2. Place the cards face down. Students take turns flipping over 2 cards at a time. If the cards match, the student keeps the pair. If the cards do not match, they are returned to the face-down position and the next player takes a turn.
  3. Students repeat the process until all cards are matched.
  4. This game can be played by one or more students.



# All About Brains Table of Contents

Human Body Lesson #5

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# Planning Page - All About Brains

Human Body Unit - Lesson 5

## Recommended Supplies:

- elbow noodles (cooked)
- gelatin
- zip top bag - gallon size
- file folder
- print-outs from this resource
- books about the brain (recommendations given)

## Hands-on Learning

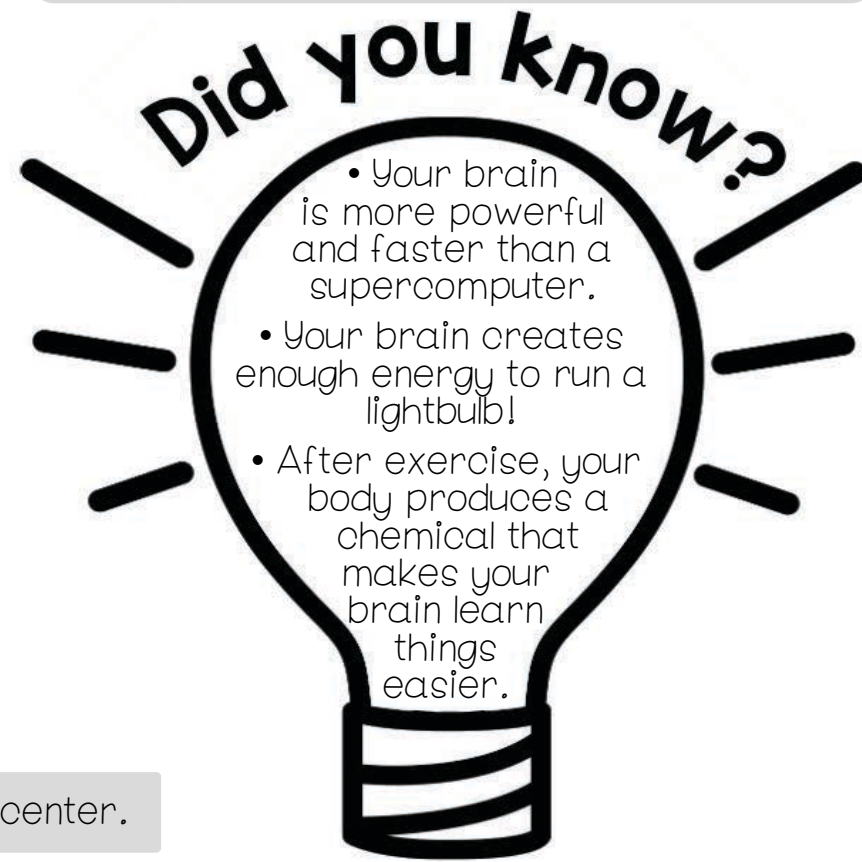
Gather up some memory games for this science center and make a brain with noodles and gelatin! Children will love investigating and exploring with these hands-on items. In the preschool classroom, it is always preferred to include real-life materials whenever possible. Let the students play and interact with the materials as they learn about the brain.

While exploring the brain, students can:

- find where the brain is located
- discover the many functions of the brain
- learn how to take care of their brain

## Learning Objectives:

- The students will use simple investigation tools to make observations.
- The students will develop questions based upon observations.
- The students will observe objects with curiosity.



\*\*Use as many real-life items as possible in the science center.

# Guiding Questions - All About Brains

## Human Body Unit - Lesson 5

### What does the brain do?

The brain helps us:

- think
- feel
- learn
- remember
- move
- talk
- breath
- digest our food

### How can we protect our brain?

If we are riding our bikes or skateboarding, we can wear a helmet to protect our brain in case we fall. The brain is the command center of our bodies, so we need to do everything we can to protect it.

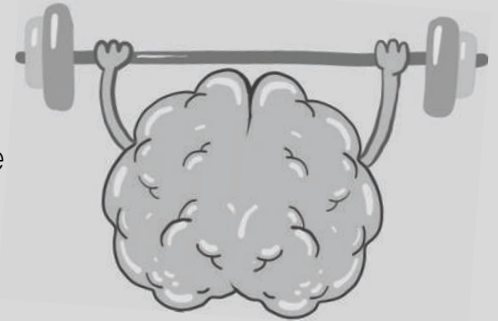


### How does my brain learn new things?

As we practice something new, the brain sends messages through new pathways, or neurons. Doing the new thing over and over again creates a new connection and “rewires” the brain. The brain changes every time we learn something new!

### How can we keep our brain healthy?

- get plenty of sleep
- wear a helmet for protection against falls from things like bike riding, skiing, and skateboarding
- eat a healthy diet
- get regular exercise



### How does my brain tell my body what to do?

The brain uses tiny cells called neurons to send messages from the brain to all parts of our bodies. These messages tell the body what to do.

### Can we see our brain?

We cannot see the brain with our eyes. Doctors use special pictures (CTs and MRIs) to see the brain inside of the head.

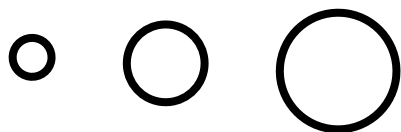




**The brain is an organ inside the head.**

**Our brains help us remember things.**





**Our brains help us think and talk.**



**Our brains help us balance.**

# brain



the organ inside our head that helps us think and learn

# head



the part above our neck and shoulders

# skull



hard, bony part of the head that protects the brain

# learn



cooking



riding a bike

swimming



folding an airplane



when we gain new knowledge of something

# helmet



hard hat that protects the head and brain

# concussion



an injury to the brain



brain

8.5



head

8.5



skull

8.5



8.5

le arn



8.5

helmet



8.5

concussion

Name \_\_\_\_\_



I can write the word "brain."

brain

brain

brain

brain

brain

brain

# All About Brains Language Board



brain



head



skull



learn



helmet



concussion

# Puzzle - All About Brains

## Human Body Unit - Lesson 5

### What does the brain do?

Each section of our brain has its own job. It is like a super computer! While playing with this puzzle, students can see the different functions and what part of the brain is in charge of that job.

#### Recommended Supplies:

- brain puzzle (included)
- 6" bowl
- elbow noodles
- plastic wrap & plastic zipper storage bag
- clear gelatin

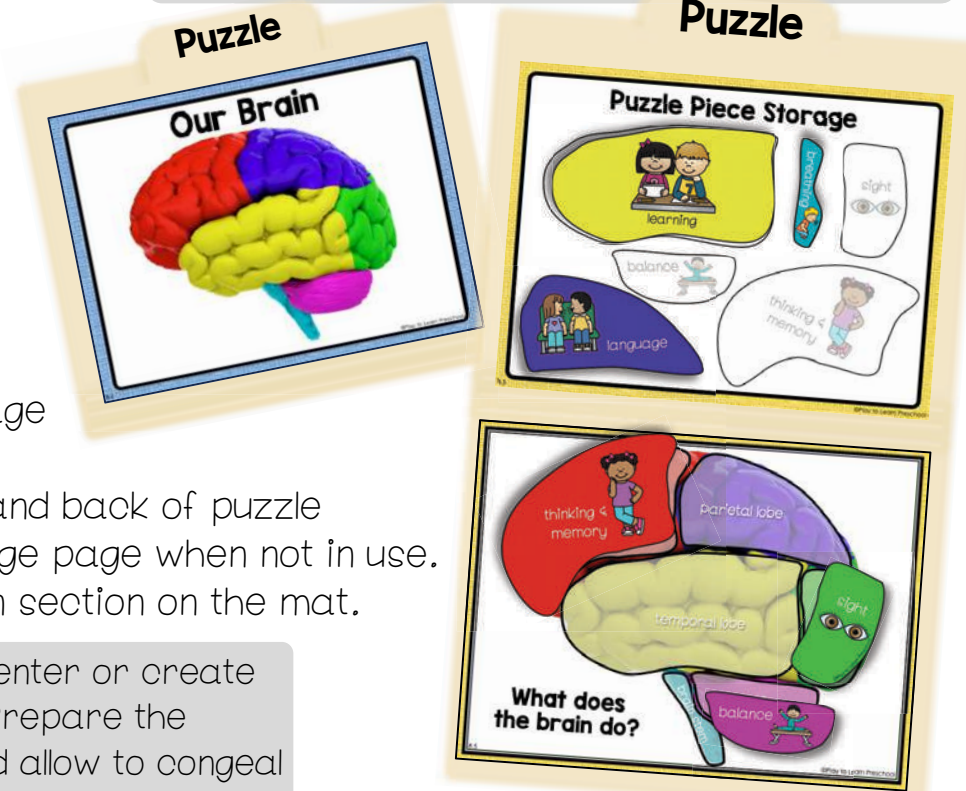
#### Procedure:

1. Print, mat, laminate, and cut apart the puzzle pages.
2. Affix the cover to the front of a file folder.
3. Attach the brain mat and puzzle piece storage page inside the file folder.
4. Apply hook & loop dots to the storage page and back of puzzle pieces. Store the puzzle pieces on the storage page when not in use.
5. Students match the puzzle piece to the brain section on the mat.

**Extend the Learning:** Place a model brain at the science center or create one by combining cooked elbow noodles with gelatin. Prepare the gelatin per package instructions then add noodles and allow to congeal in a 6" bowl. Place "brains" in a zip top plastic bag for observation.

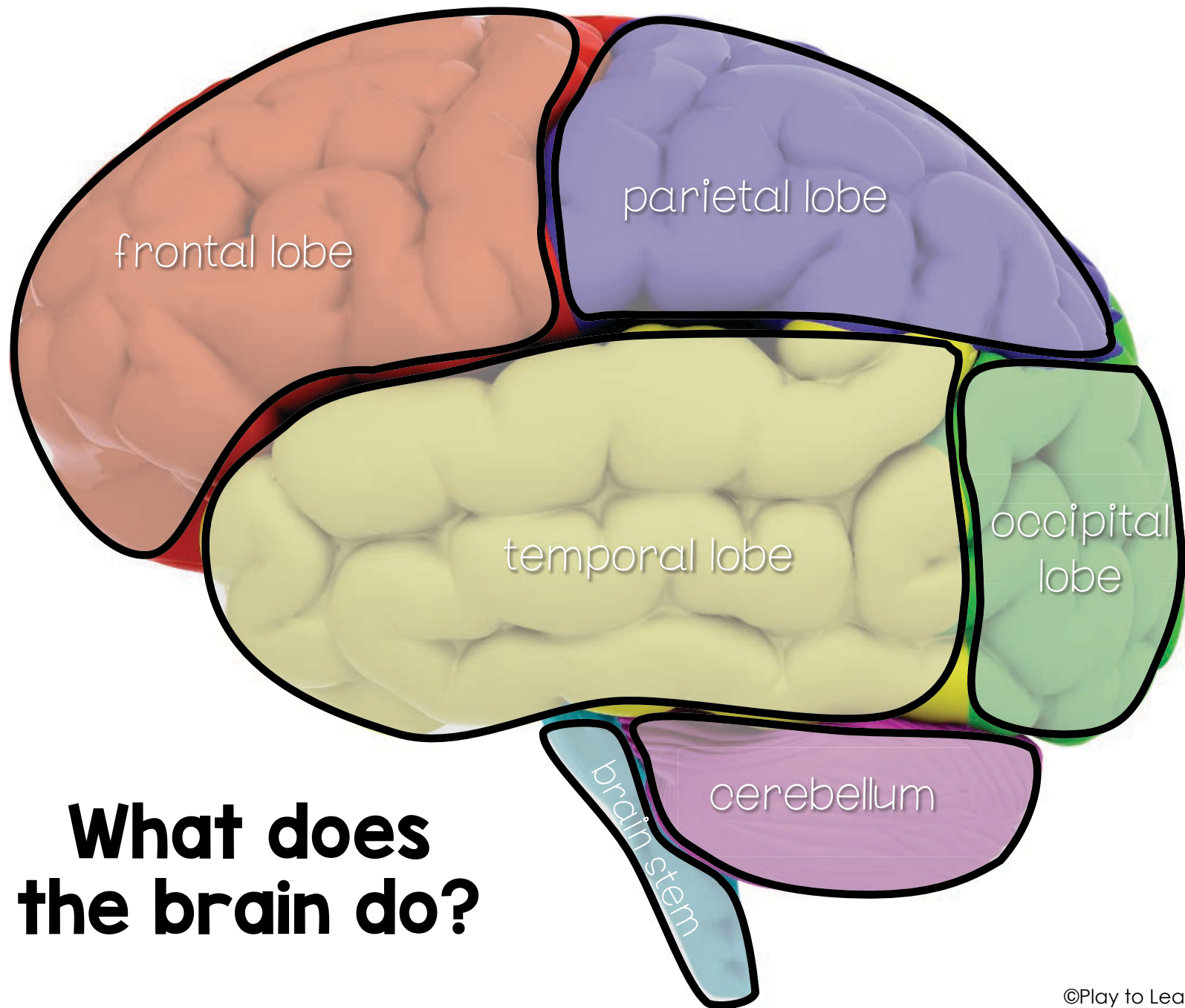
#### Learning Objectives:

- The students will control the small muscles of their hands.
- The students will observe objects with curiosity.



# Our Brain





# What does the brain do?

# Puzzle Piece Storage

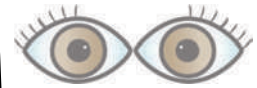


learning

breathing



sight



balance



thinking & memory

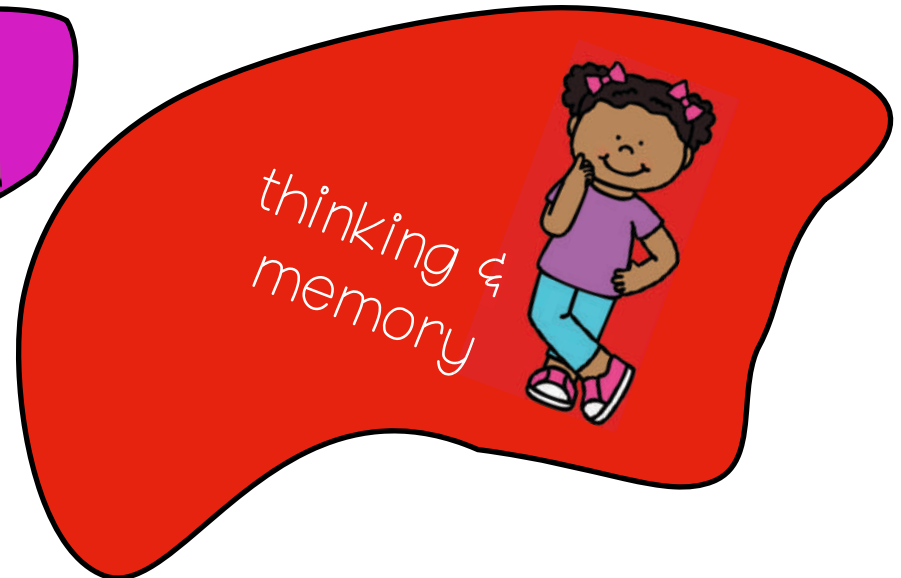
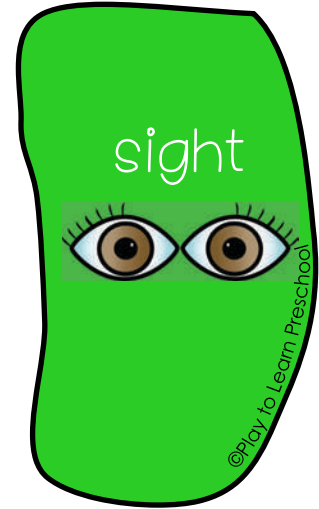


language



Print, mat, and cut the puzzle pieces apart. Laminate as desired. Attach hook & loop dots to the back of each puzzle piece.

Students match the puzzle piece to its corresponding shape on the "Our Brain" mat. Store pieces on "Puzzle Piece Storage" page when not in use.



# Matching Game - All About Brains

## Human Body Unit - Lesson 5

### Can you find the matching card?

Our brains are complex organs that control our thoughts and motions. While playing this game, students will begin to understand that the brain's power is what helps us remember things like where the cards are located.

#### Recommended Supplies:

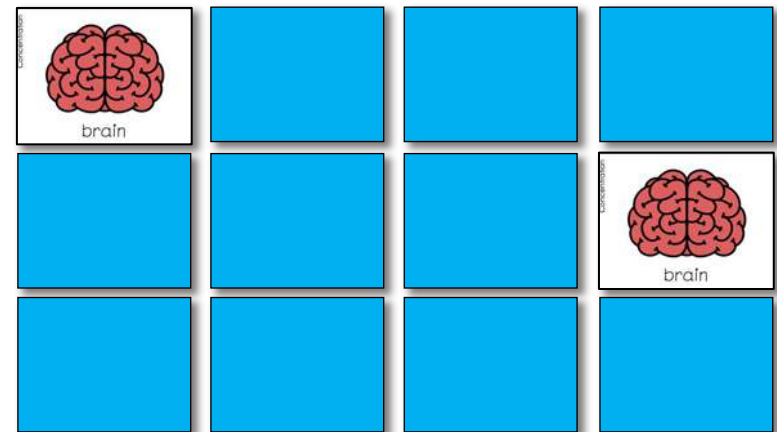
- memory cards
- flat playing surface

#### Procedure:

1. Print the picture cards. Mat onto cardstock and/or laminate as desired. Cut apart.
2. Place the cards face down. Students take turns flipping over 2 cards at a time. If the cards match, the student keeps the pair. If the cards do not match, they are returned to the face-down position and the next player takes a turn.
3. Students repeat the process until all cards are matched.
4. This game can be played by one or more students.

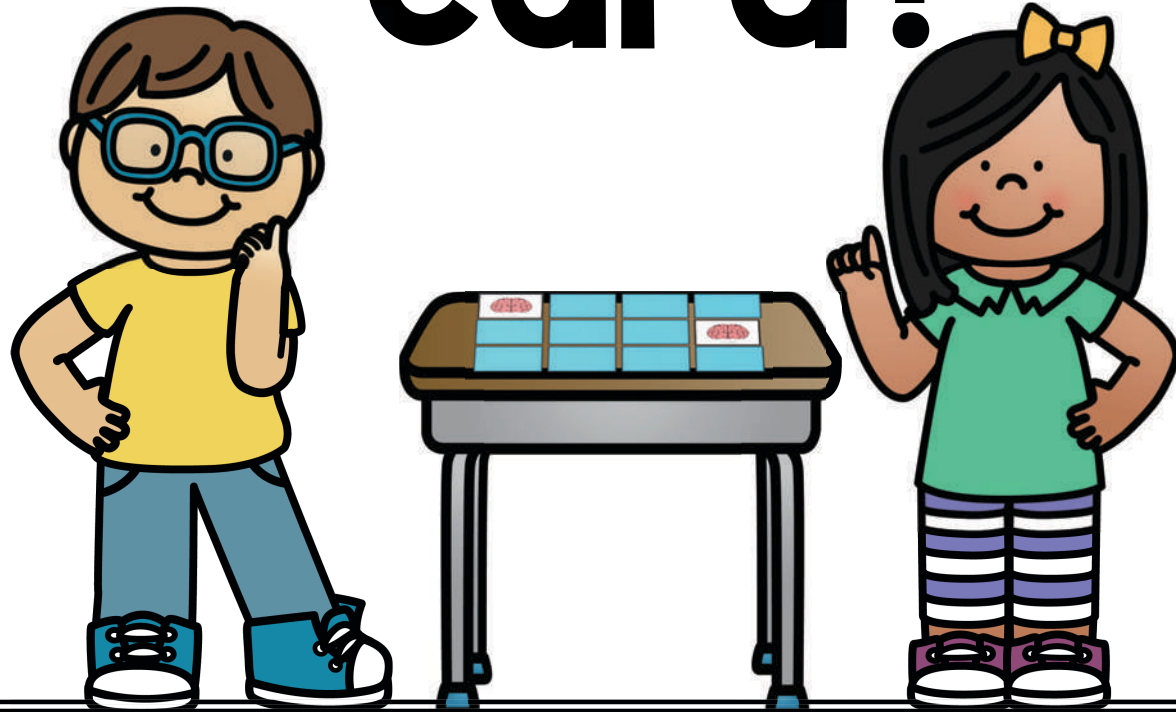
#### Learning Objectives:

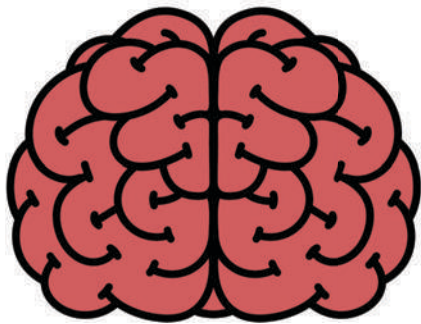
- The students will use visual discrimination (matching) skills to identify two identical objects.
- The students will show persistence in approaching tasks.
- The students will work on a task through completion.



Focus  
Question

# Can you find the matching card?





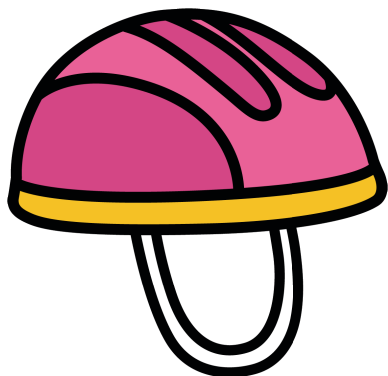
brain



skull



head



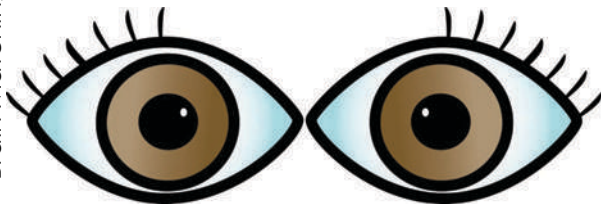
helmet



talk



balance



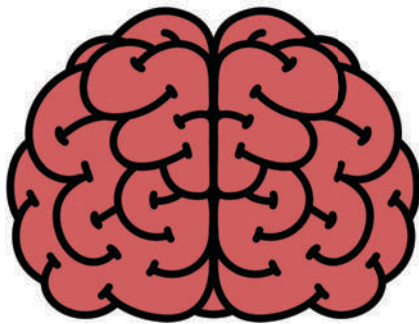
see



remember



breathe



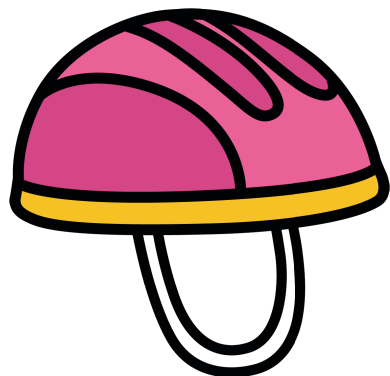
brain



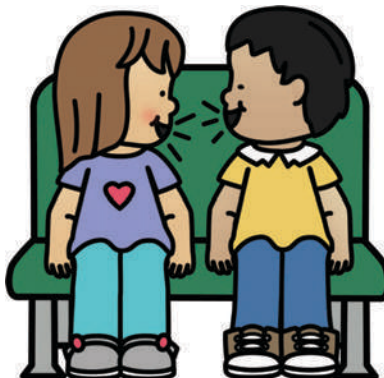
skull



head



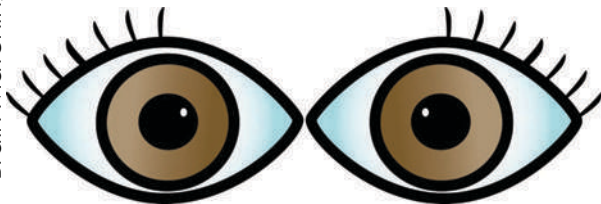
helmet



talk



balance



see



remember



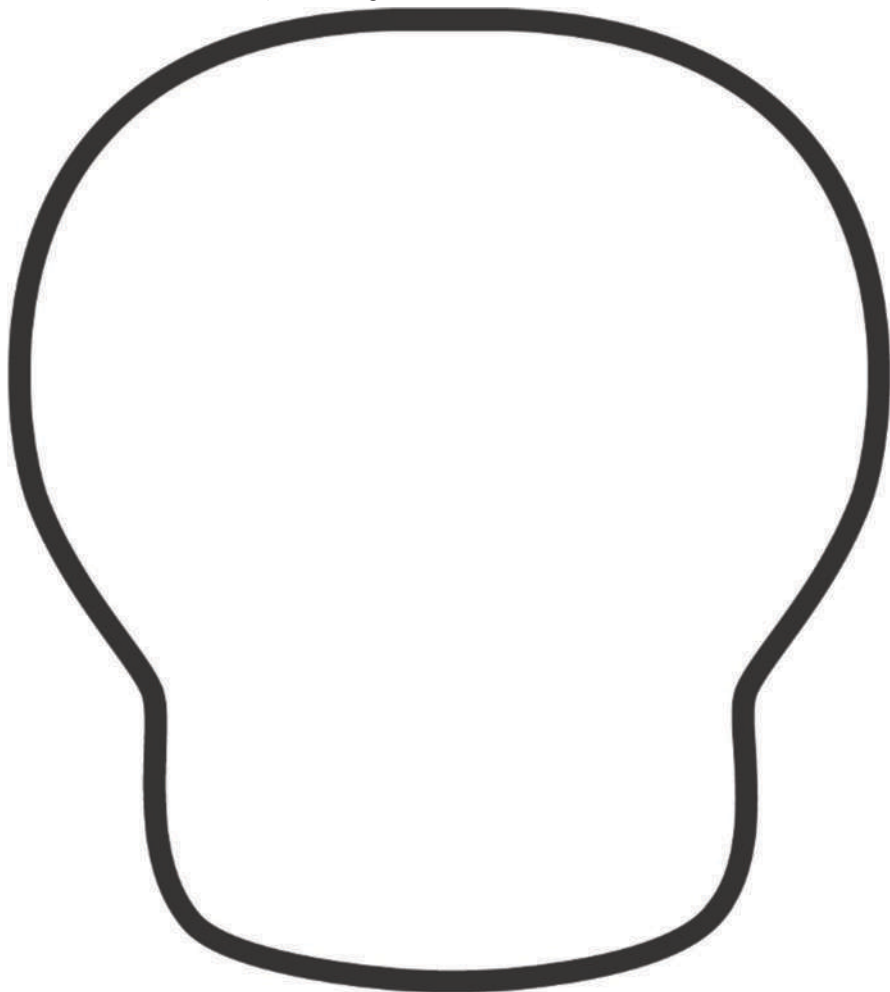
breathe

Name \_\_\_\_\_

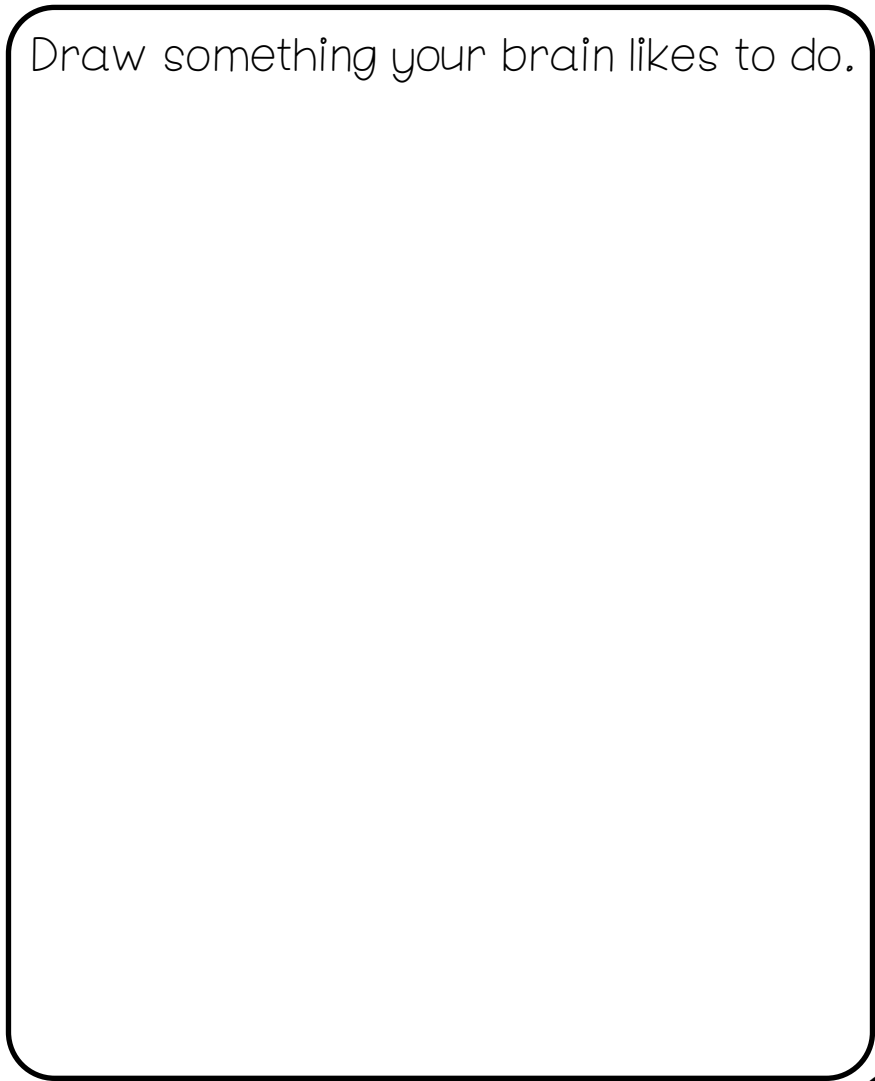


# What does your brain like to do?

Draw a squiggly brain inside the skull.

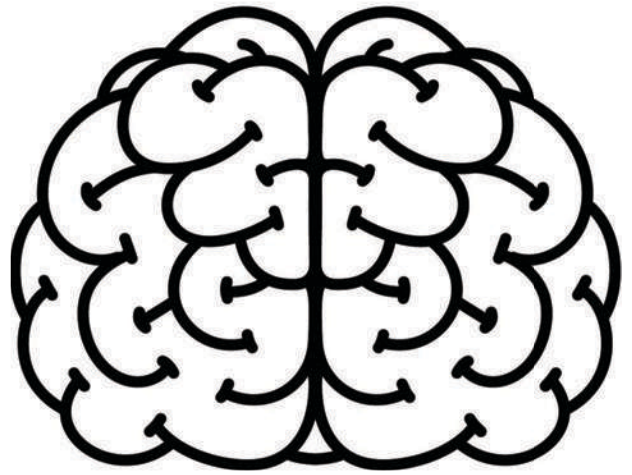


Draw something your brain likes to do.



All About

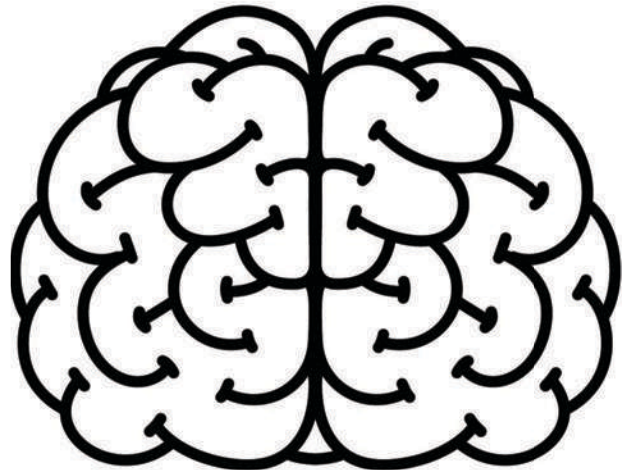
# Our Brain



Name \_\_\_\_\_

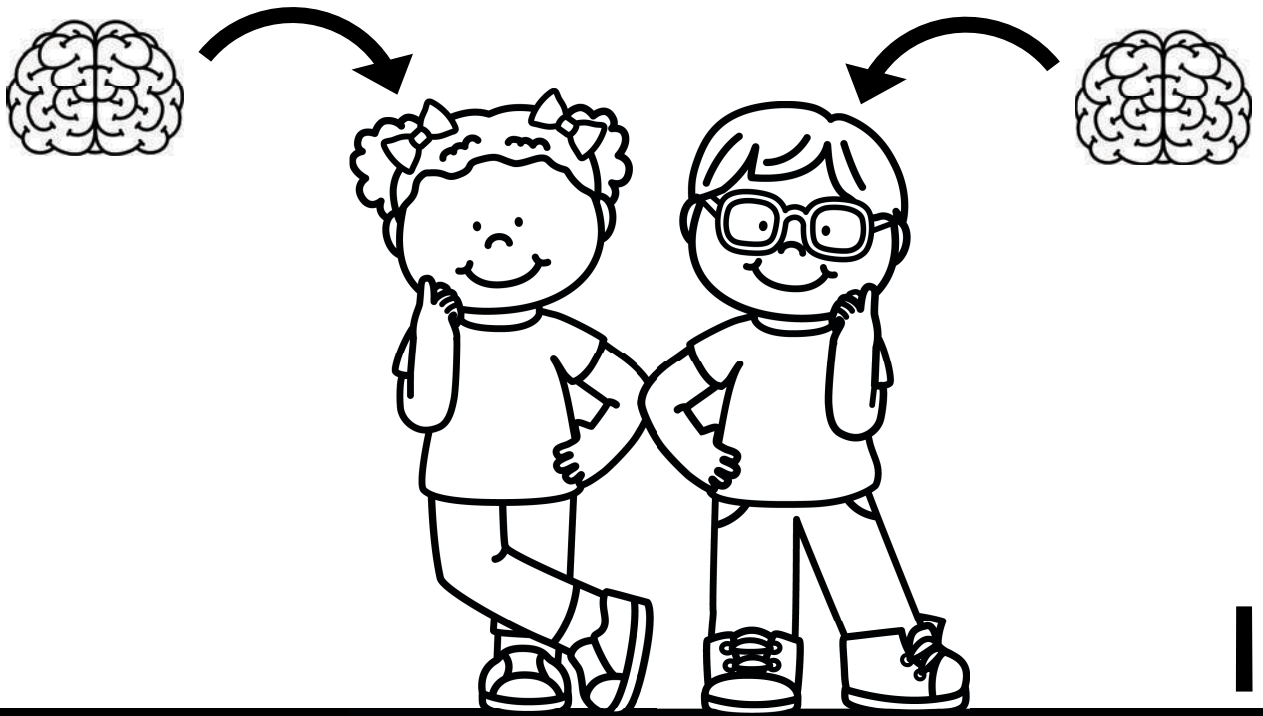
All About

# Our Brain

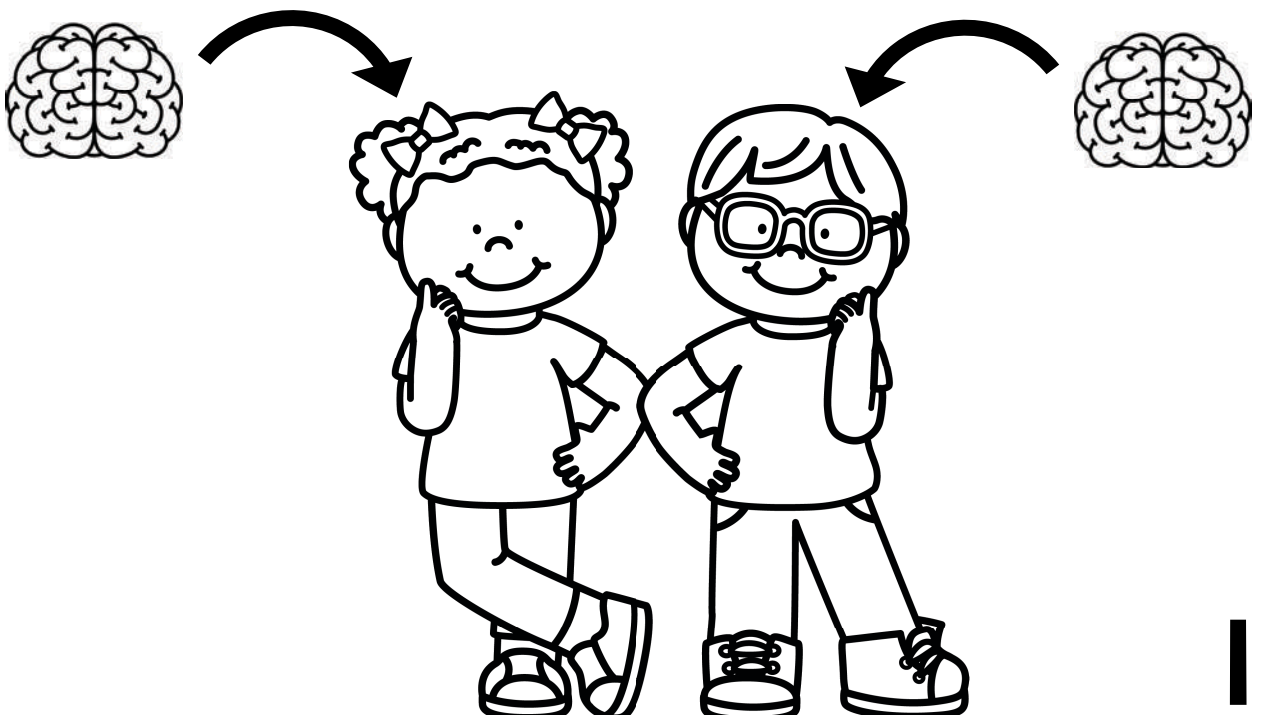


Name \_\_\_\_\_

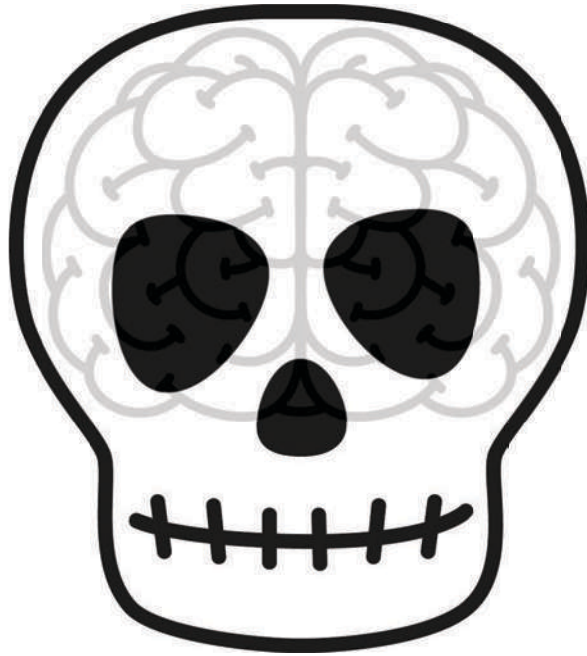
The brain is inside the head.



The brain is inside the head.



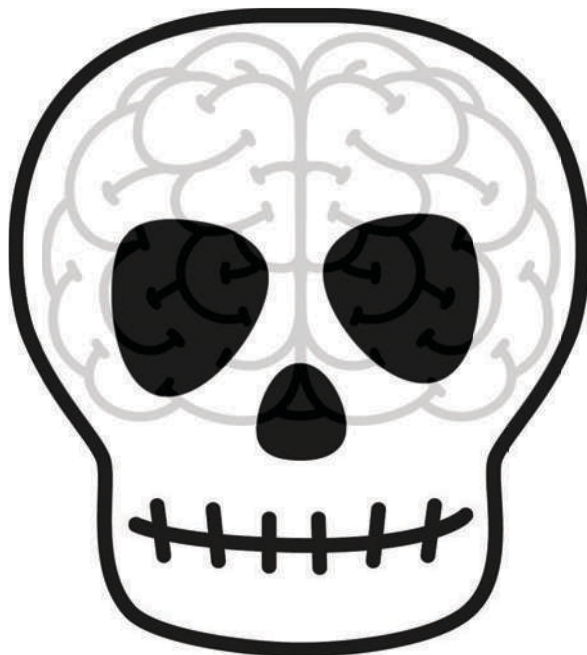
The skull protects the brain.



2

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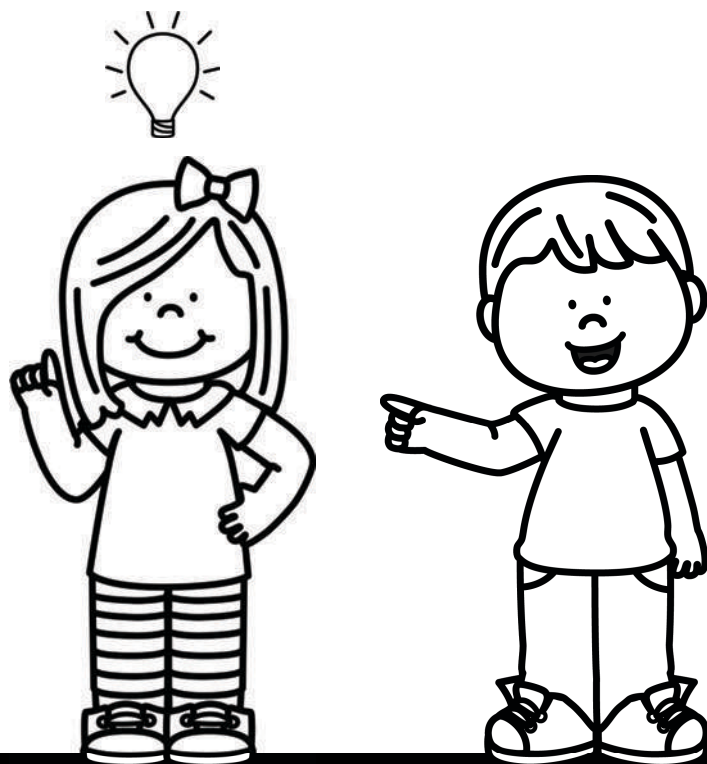
The skull protects the brain.



2

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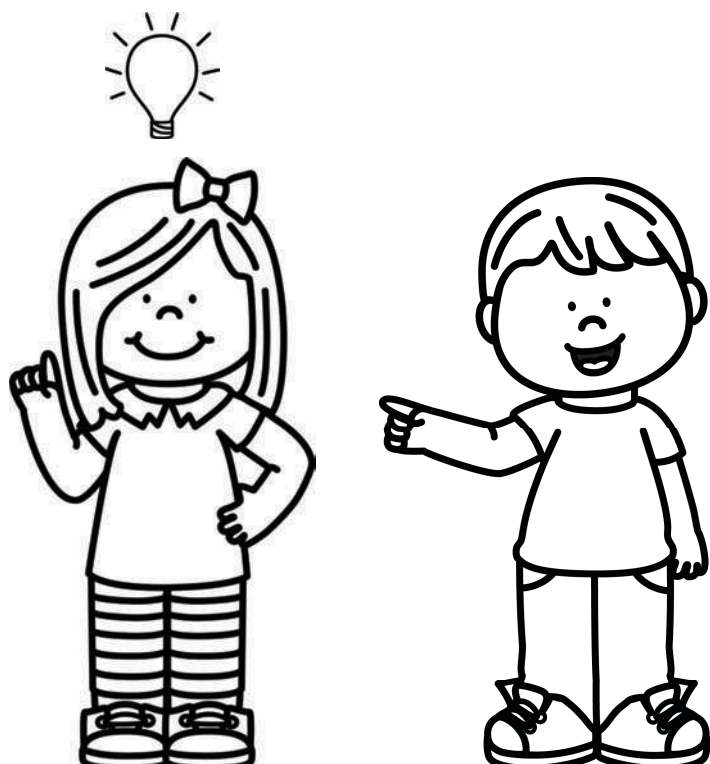
The brain helps us think and talk.



3

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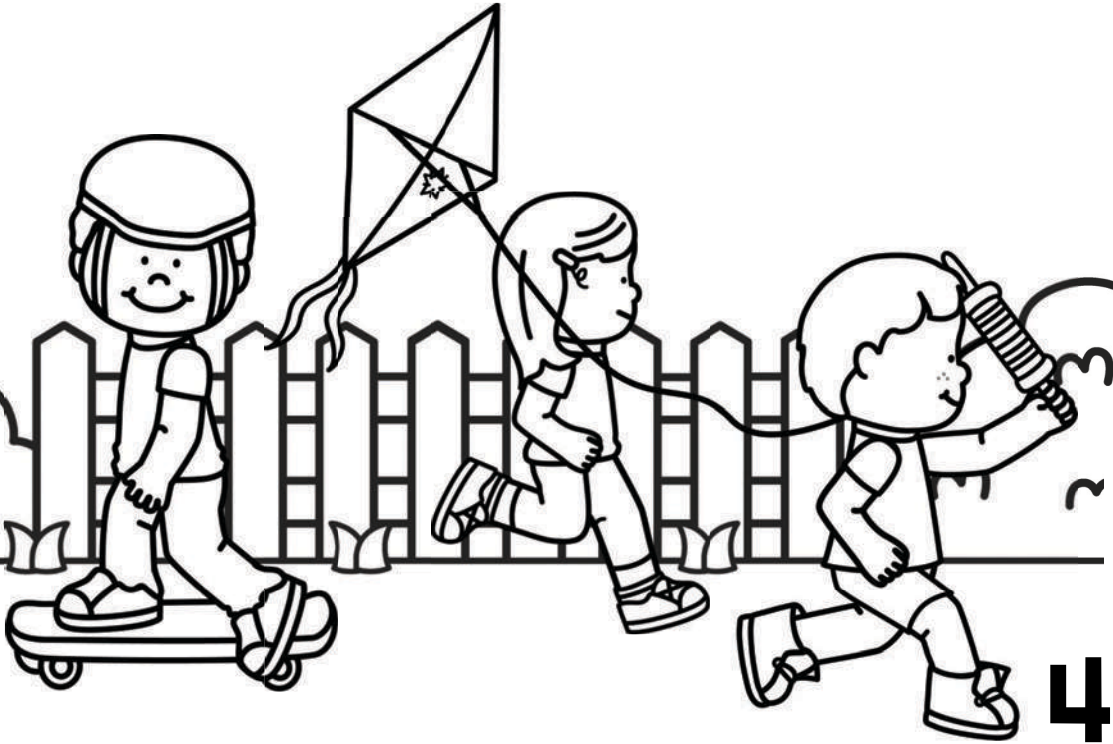
The brain helps us think and talk.



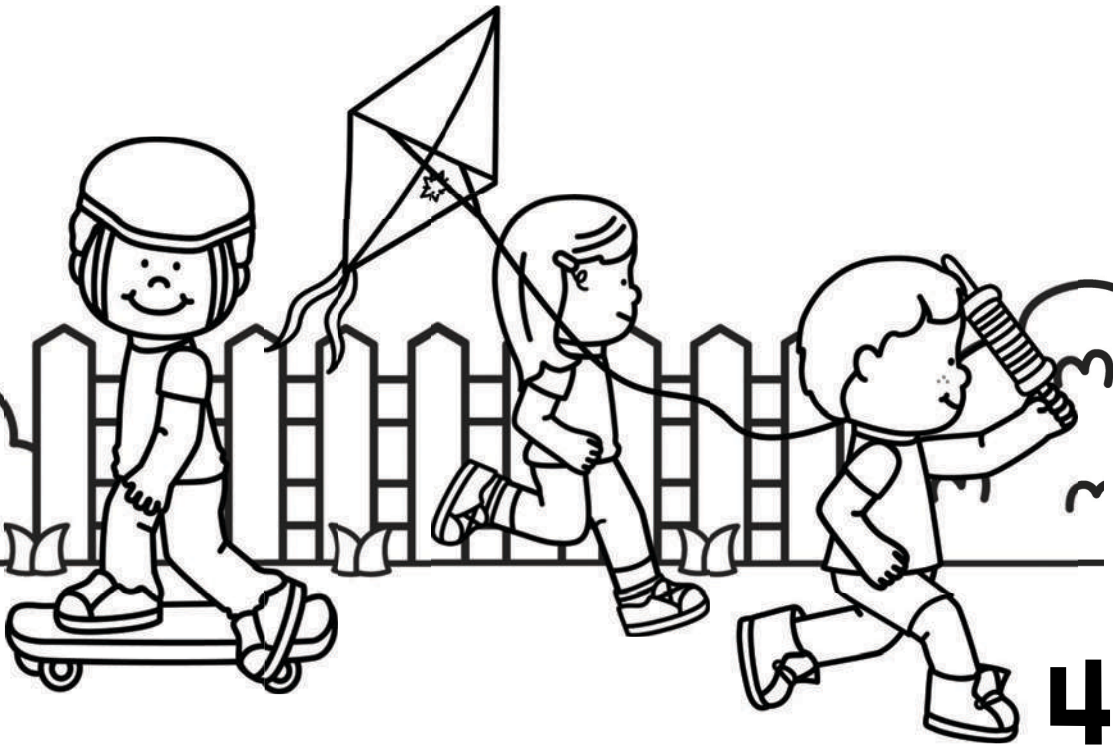
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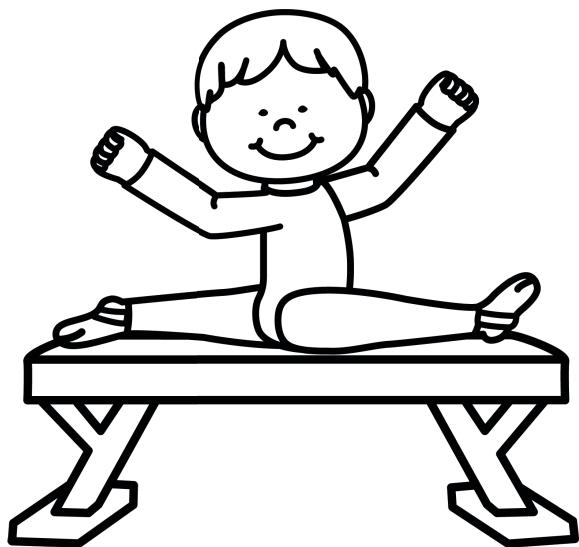
The brain helps us move.



The brain helps us move.



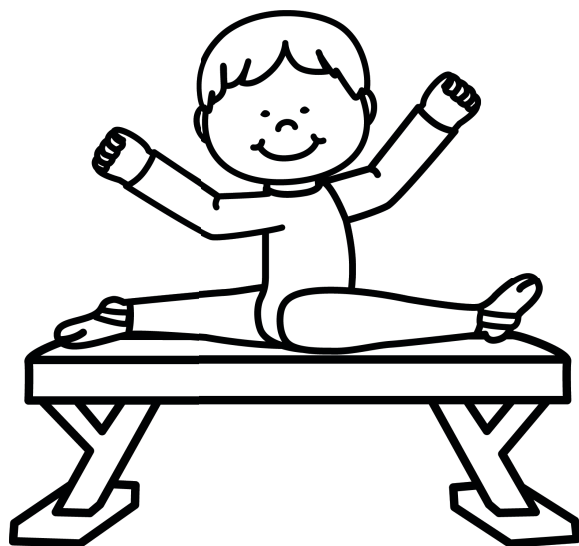
The brain helps us balance.



5

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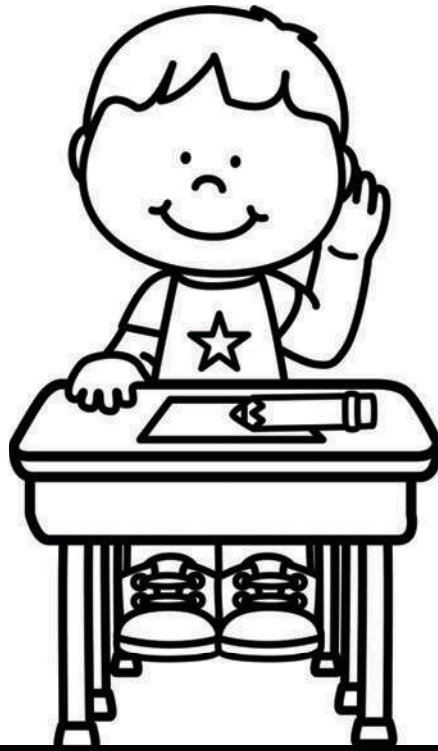
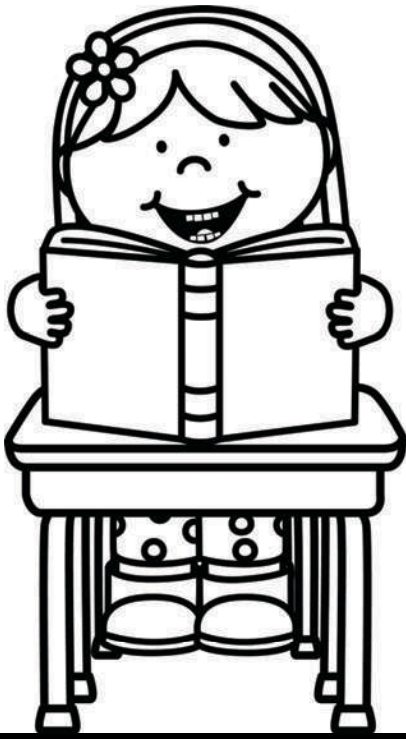
The brain helps us balance.



5

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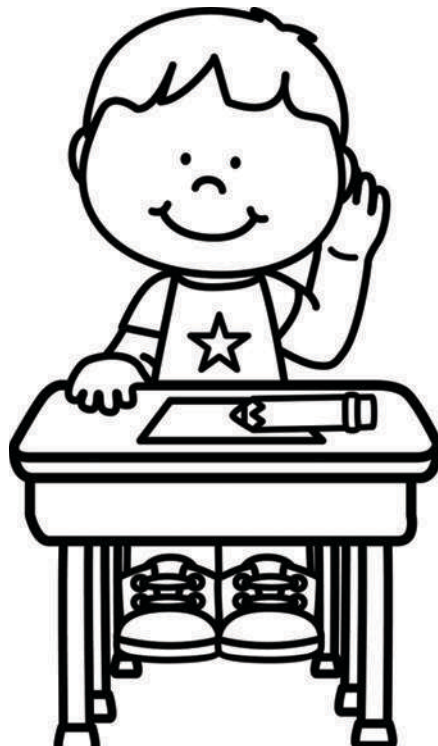
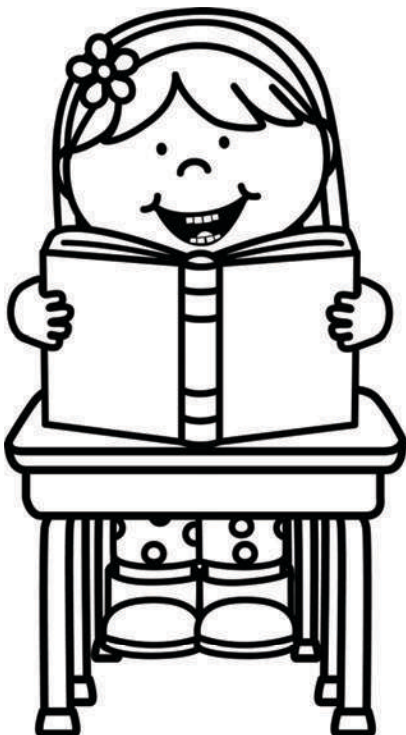
The brain helps us see and hear.



6

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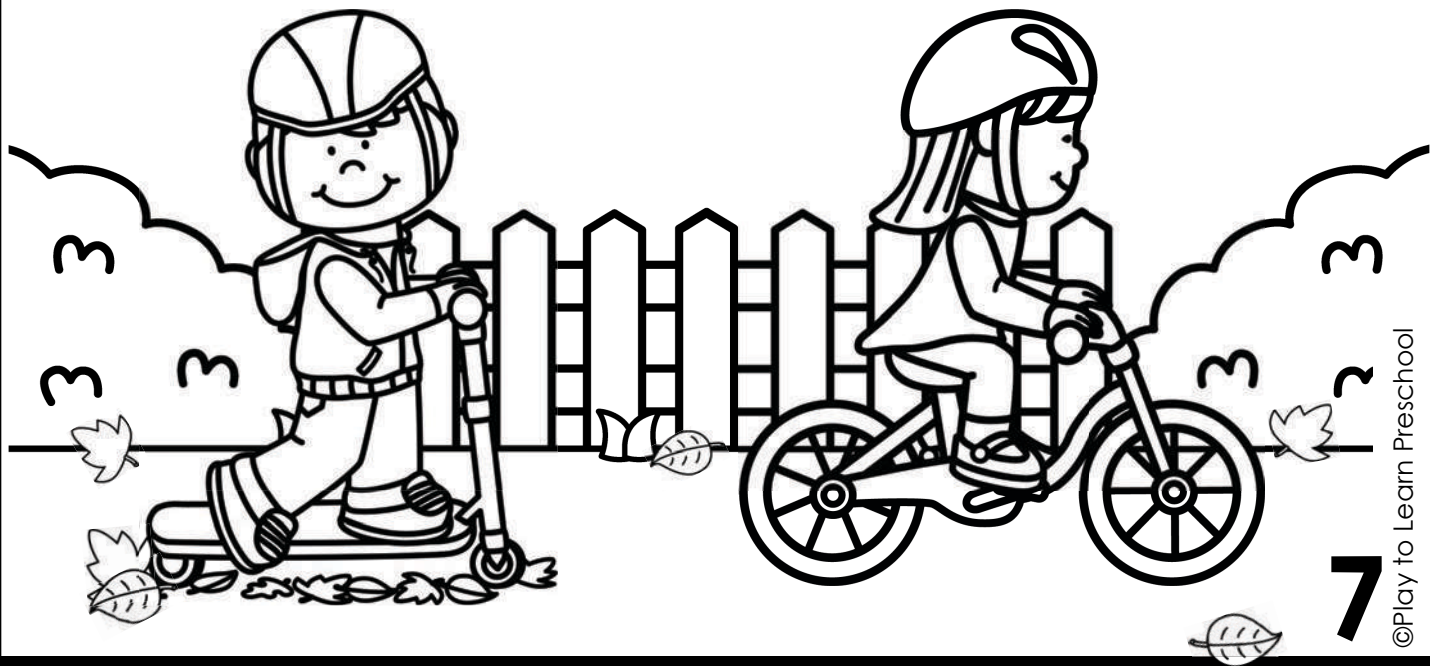
The brain helps us see and hear.



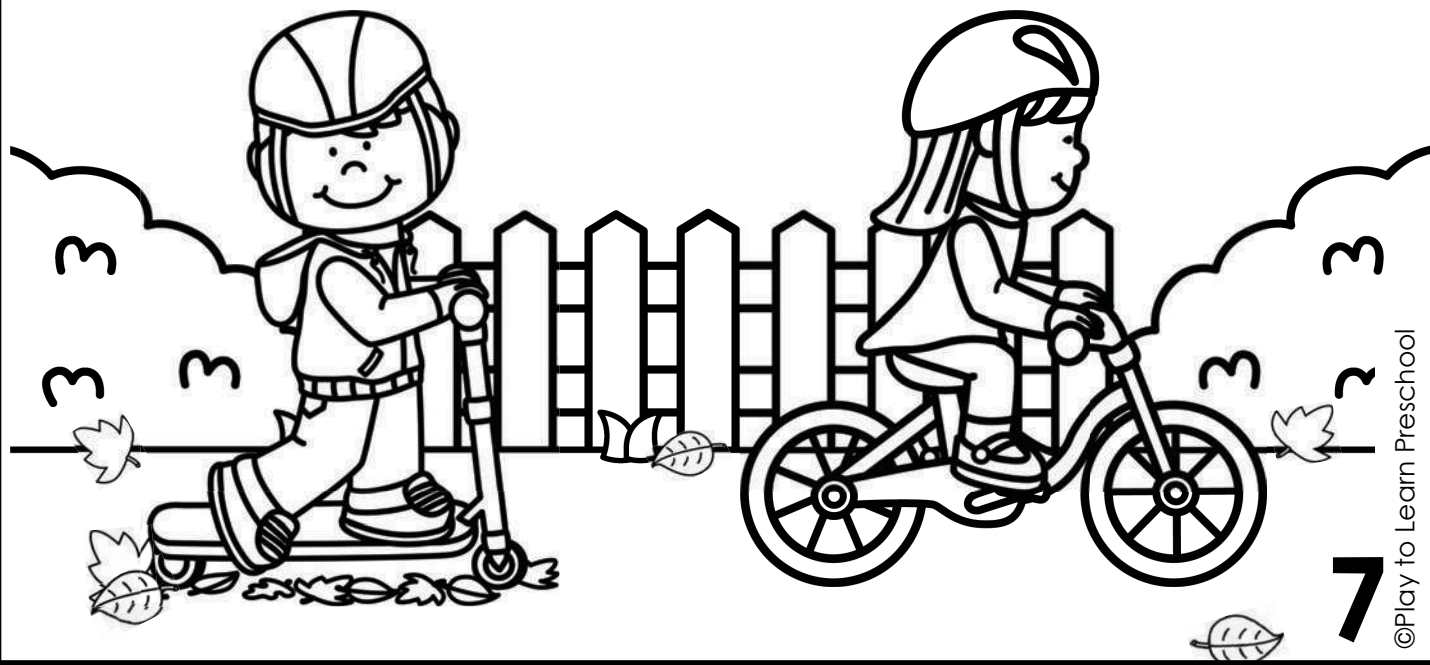
6

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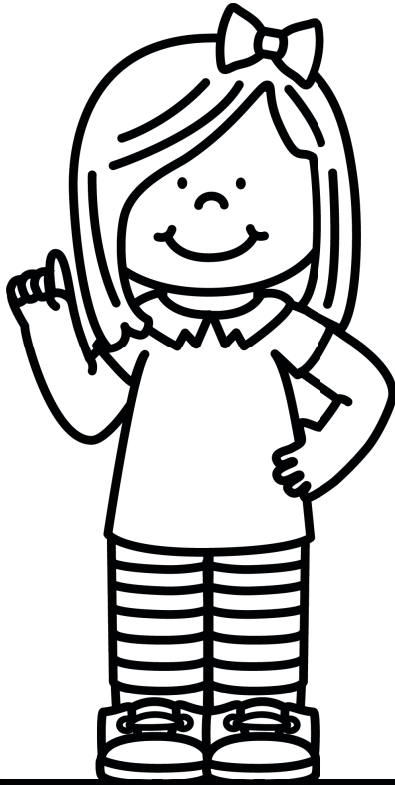
We wear helmets to protect our brains.



We wear helmets to protect our brains.



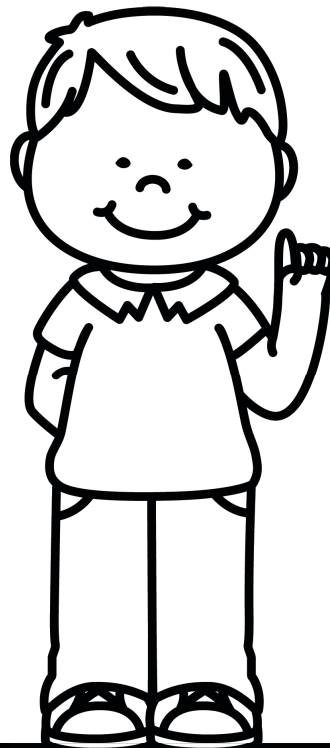
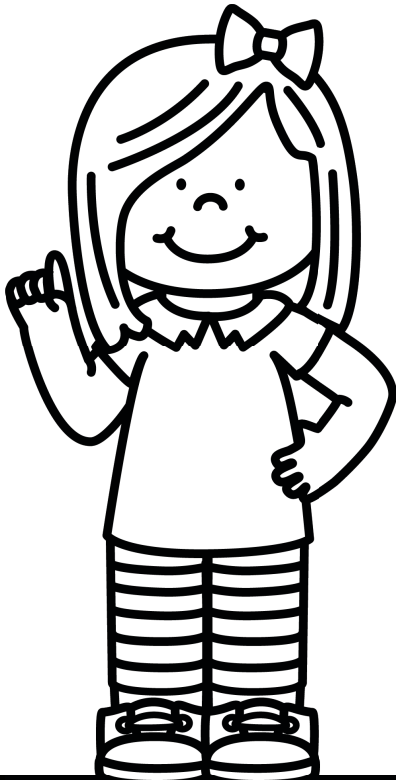
Our brains are amazing!



8

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Our brains are amazing!



8

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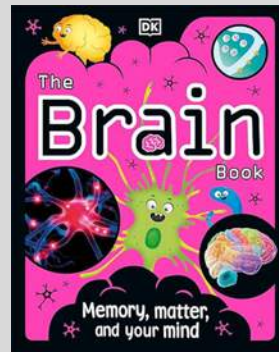
# Book Recommendations - All About Brains

## Human Body Unit - Lesson 5

### The Brain Book

by Liam Drew

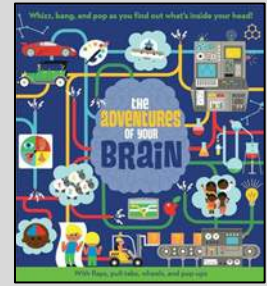
Informative pictures and infographics show the complexities of the brain. Engaging pages show how the brain runs everything from our actions to our emotions and everything in between.



### The Adventures of Your Brain

By Dan Green

Engaging flaps, pull tabs, wheels, and pop-ups keep the reader's attention as they explore this book. Dan Green's ability to take a complex topic and make it fun provides a great introduction to the brain.



### Book of the Brain and How It Works

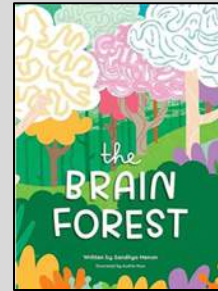
by Dr. Betina Ip

Metaphorical illustrations show how the brain works as a wise little owl takes the reader on a journey of the many wonders of the brain. Older students will enjoy the information while emergent readers will love the engaging pictures.



### The Brain Forest by Sandhya Menon

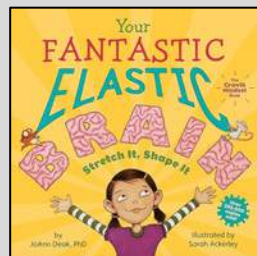
This informative book on neurodiversity shows how our brains run differently. This story would be a great introduction into a classroom study of the brain. The story has the reader thinking of how their brain is special and how it works in relation to others.



### Your Fantastic Elastic Brain

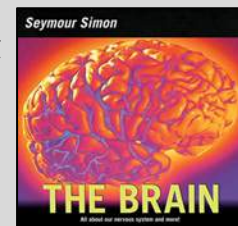
By JoAnn Deak, PhD and Terrence Deak, PhD

The authors of this book offer a fascinating look into the anatomy and functions of the brain. Engaging illustrations with interesting details will encourage students to learn more about the brain.



### The Brain: All About Our Nervous System and More! (Smithsonian Science) by Seymour Simon

This book may be above even the most precocious of preschool students, but the stunning full-color pictures give a fantastic account of what the brain and all its parts look like.



# Thematic Units

Lesson Plans Done for You!

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These talented artists made this possible.



# All Themes Growing Bundle

70 CIRCLE TIME UNITS

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- You may not claim these resources or ideas as your own.
- You may NOT use these resources to teach lessons that you **sell** online. (Teaching your own students – great. Selling these lessons, even if you do them yourself, online – not permitted.) This includes OutSchool and similar platforms.

Complete circle time lesson plans for each thematic unit, including literacy, math, and more!