Lesson 4

Let's talk about smell & taste
What did we learn last time?

We learned about the 4 lobes of our brain & their important jobs!
Fill in the blank!

Frontal, Parietal, Temporal, or Occipital

The ____ lobe helps us hear sounds.

The ____ lobe helps us figure out how our body is positioned.
Fill in the blank!

Frontal, Parietal, Temporal, or occipital

Our ____ lobe is like a superhero because it helps us solve problems & make decisions.

Our ____ lobe helps us with vision.
What did we learn last time?

We also learned that.....

The **Cerebellum** controls our balance & coordination.

The **Brain Stem** works to control our heart rate & breathing.
Today we are going to learn about:

Our ability to taste and smell things!
How do we Smell things?

We smell things with our **nose**!

“Odors” (or smells) are constantly floating around in the air that we breathe!
How do we smell things?

"Receptors" in our nose receive or catch odors (smells) that are in the air.
Think of Receptors like baseball mitts. Just like a baseball mitt catches a fly ball... a receptor catches an odor.
What's next?

The receptors send a signal (message) to our brain through a chain of neurons.
What's next?

Then, our brain interprets the message.

Does this smell good?

Have I smelt this before?
Our sense of smell is very important!

Smells can tell us what to approach...

...& what to avoid!
How do we taste things?

Our **tongue**!

We have **bumps on our tongue called “papillae”**

Look in the mirror - can you see yours?
How do we Taste things?

Our Papillae contain a lot of **taste buds**.

Overall, we have ~2,000 - 4,000 taste buds on our tongue!
How do we taste things?

Our taste buds have receptors that send messages to the brain about what we taste through neurons.
Different types of Taste

Our taste buds can pick up on **FIVE** different types of taste.

Can you name all five?
What types of taste are there?

Sweet  Salty  Sour  Bitter  Savory
What are your favorite foods?

Write the names of your favorite foods under each category!

sweet salty sour bitter savory
Let’s do an experiment!

An experiment is when we do a test to answer a question.
Our question today:

Do the nose & tongue work together to help us taste flavors?
TASTE EXPERIMENT

1. Get jelly beans (or any sweet with a consistent shape & a variety of flavors, i.e. gummies, skittles, starburst).
Taste experiment

2. One person closes their eyes and plugs their nose while another person places a jelly bean in their free hand.

3. The person who received the jelly bean puts it in their mouth and chews it while keeping their nose plugged.
Taste experiment

4. Can you guess the flavor of the jelly bean?!
   
   Cotton candy, blueberry, orange, Green apple, Cherry, ??

5. While still chewing, unplug your nose and take a breath in!

6. Now can you guess the flavor of the jelly bean?!
What did we discover?

When we had our nose plugged, the jelly bean tasted sweet, but it was hard to tell the exact flavor.

When we unplugged our nose, our sense of smell worked together with our sense of taste to pick up on the flavor!
We’re done! Can you name one thing that you learned today?

1.) ________________

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