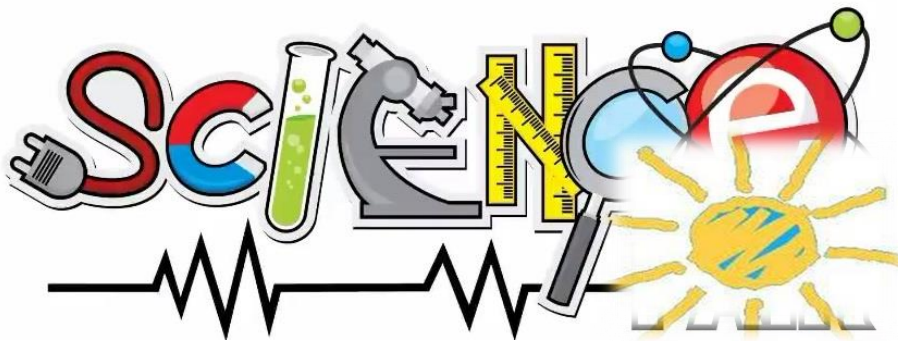




Name \_\_\_\_\_

## 4<sup>th</sup> Grade Science Remote Learning Packet

### Week 8



Dear Educator,

My signature is proof that I have reviewed my scholar's work and supported him to the best of my ability to complete all assignments.

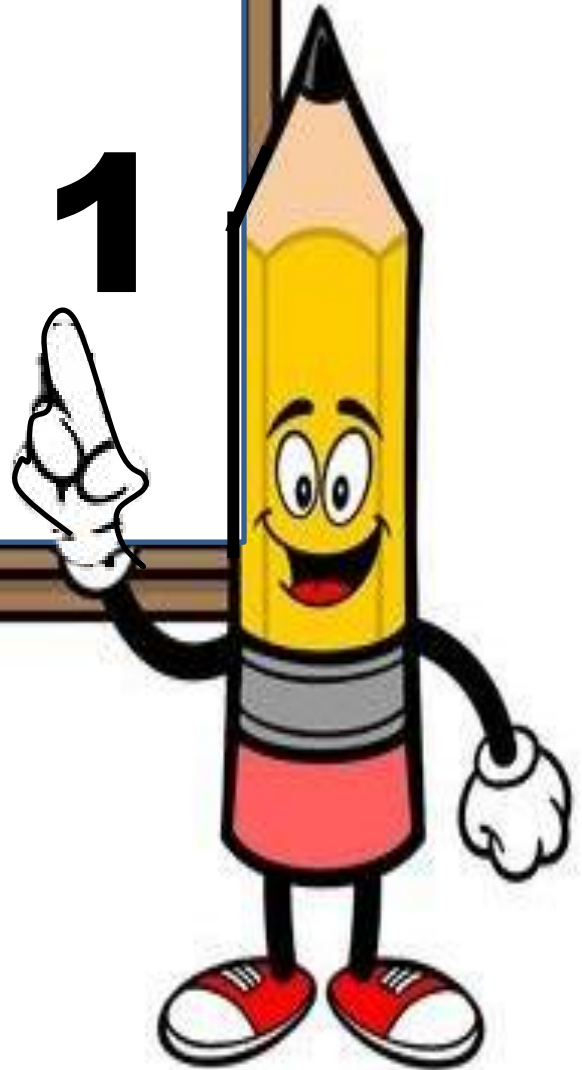
\_\_\_\_\_  
(Parent Signature)

\_\_\_\_\_  
(Date)

Parents please note that all academic are also available on our website at [www.brighterchoice.org](http://www.brighterchoice.org) under the heading "Remote Learning." All academic packet assignments are mandatory and must be completed by all scholars.



# Day # 1



Name: \_\_\_\_\_ Week 8 Day 1 Date: \_\_\_\_\_

BCCS-B

Howard

Morehouse

Hampton

### **Guided Notes: Human Machine—How can some animals see in the dark?**

#### **Vocabulary:**

1. **Pupil:** the small, \_\_\_\_\_, round area at the \_\_\_\_\_ of the eye
2. **Iris:** the \_\_\_\_\_ of your eye

#### **Video:**

For each exploration, either take notes while Doug is speaking or answer the question in a complete sentence before discussing. Remember, the expectation is eyes forward watching the video and silence in the classroom. If you have a question or comment, write it down. When it is time to discuss, first think about your answer and then write it down. When you finish, sit in STAR. When asked for comments, raise a silent hand and wait to be called upon.

**Exploration 1: Notes-** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Exploration 2: Discuss-** What do you think is special about nocturnal animal eyes that make them able to see in the dark? Any ideas? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

#### **Activity—Part 1**

Please follow along with Doug and the directions he gives you. It is the expectation that you are silent during the directions. Also, do not do anything until he or I are finished speaking. This will help you to know what to do.

*Discuss-*How did your partner's eye change? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

*Discuss*-Why do you think eyes change like this? \_\_\_\_\_

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**Exit Ticket:**

Think back to the videos and what Doug was saying and questioning about nocturnal animals. Now think about what you observed during the activity with your partner's eyes. Finally, think about the discussion we had about what was happening with the eye. Now, answer the following question in a complete sentence.

Taking what you have just learned and noticed why do you think some animals can see in the dark?

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**Day 2: Activity and Assessment**

**Today, we are going to do the second part of the activity. It is my expectation that you are silent unless it is a moment that you can speak. If you are speaking during the activity, with permission, with your group/partner your voice needs to be kept low. If I speak, you should be able to hear me. If I say VOICES, please bring your voice level down. Our voices should be right around a whisper. You do not need to whisper, but you should be talking quiet enough that even if I am standing beside you it will be difficult for me to hear what you are saying.**

**Please ensure that you are working quickly and quietly. If you do not heed this direction, you will not complete the activity but rather watch as I do the activity.**

*Discuss*-How do you think the picture on the retina would change if the pupil were smaller?

Why do you think that?

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*Discuss*-How was the picture different with the **big** pupil vs. the **small** pupil? \_\_\_\_\_

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Can you think of a situation when it'd be helpful for you pupil to open wide? \_\_\_\_\_

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What about a situation when it'd be helpful for your pupil to open wide? \_\_\_\_\_

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**Take notes:**

**Exploration 3: Notes-**\_\_\_\_\_

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**Exploration 4: Notes-**\_\_\_\_\_

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**Exploration 5: Notes-**\_\_\_\_\_

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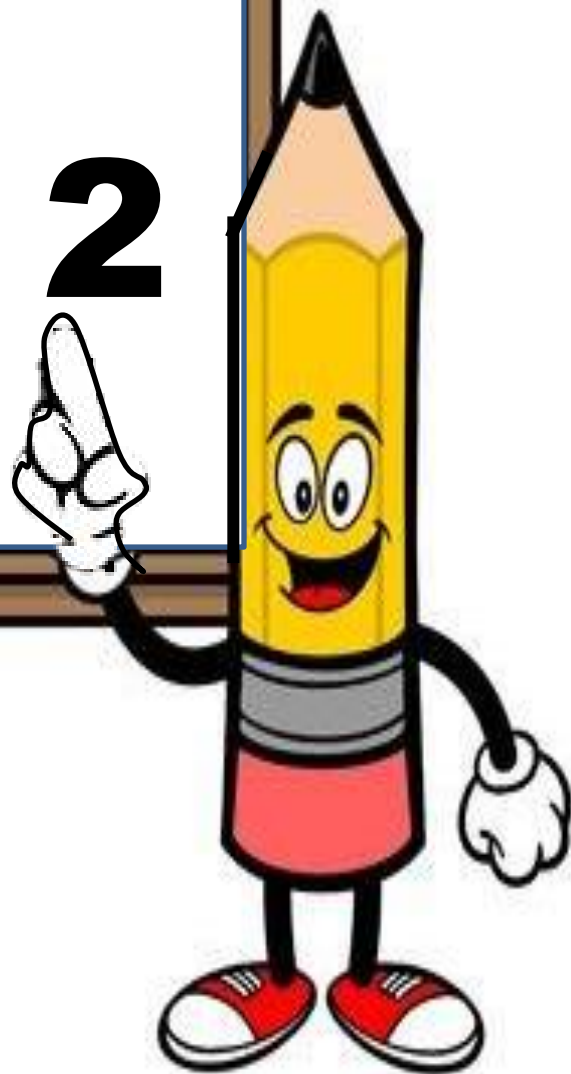
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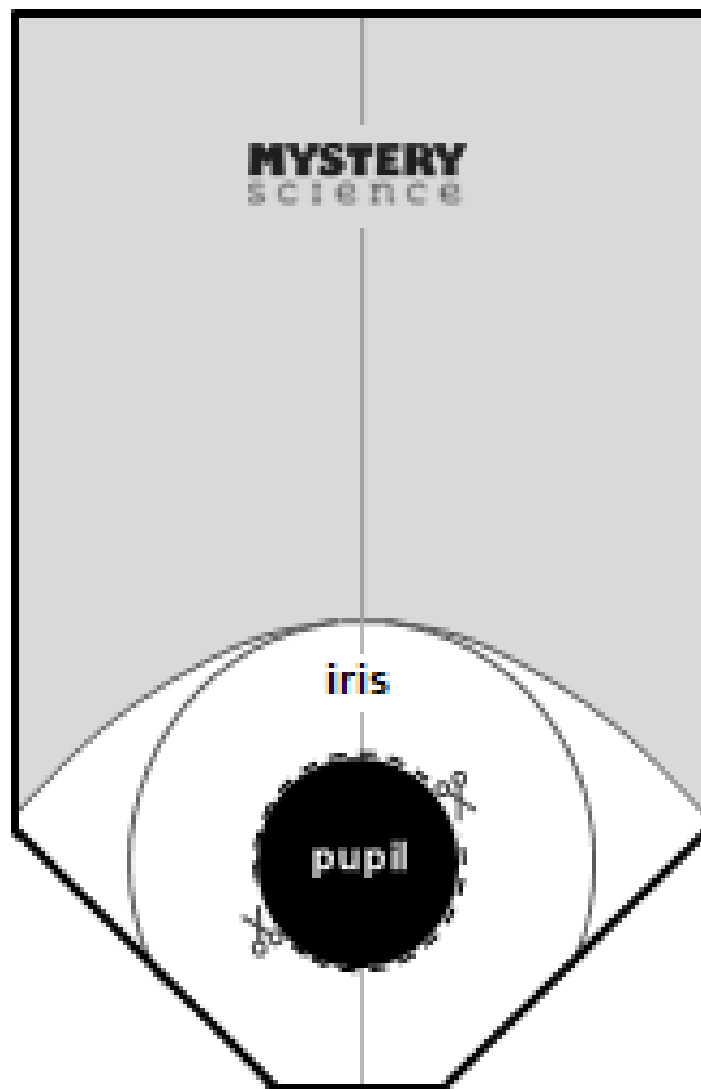
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# Day # 2



# Pupil card

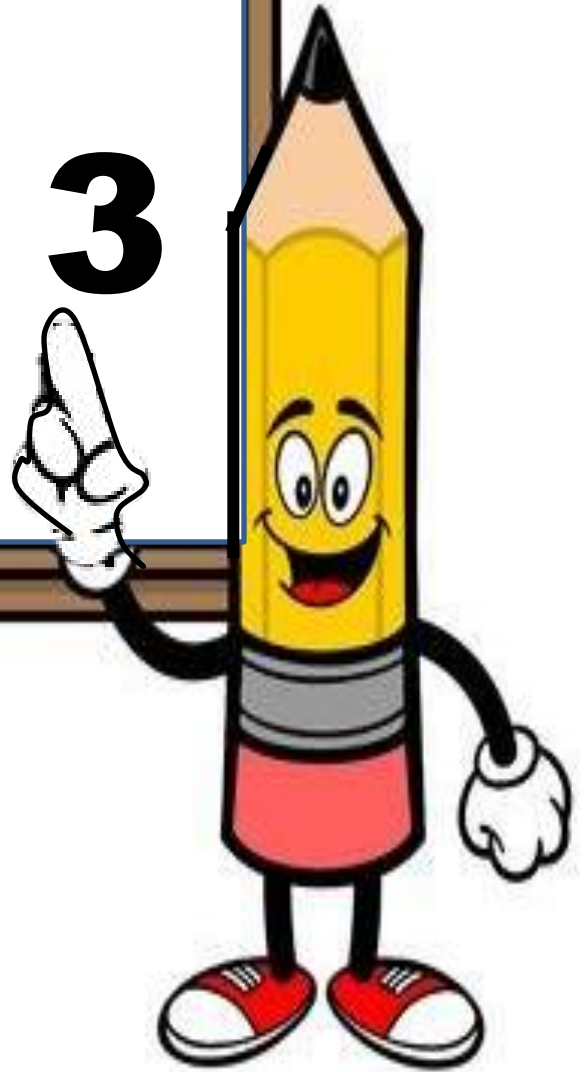








# Day # 3



Name: \_\_\_\_\_ Week 8 Day 3 Date: \_\_\_\_\_

BCCS-B

Howard

Morehouse

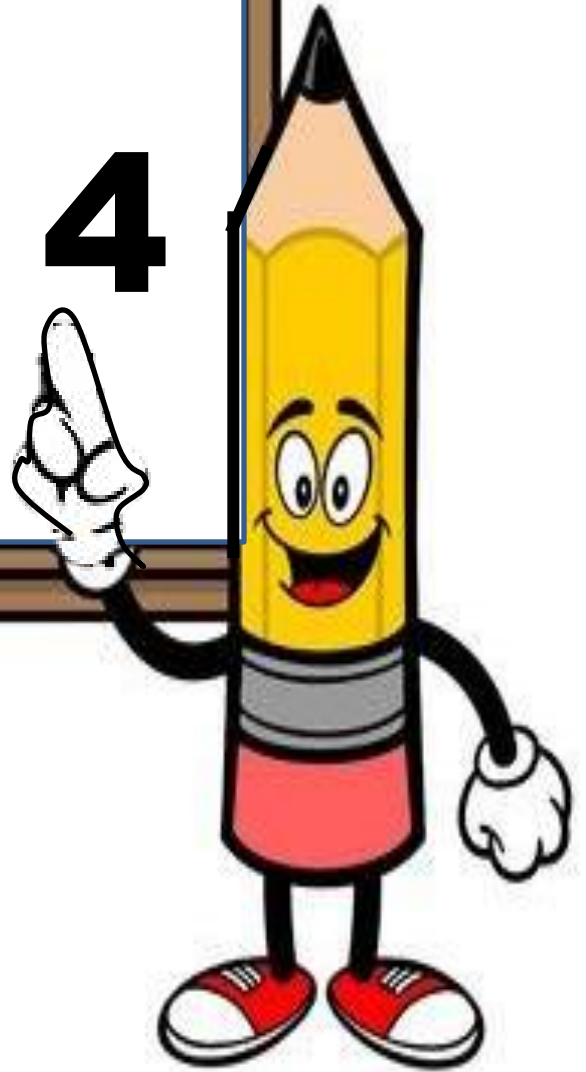
Hampton

## End of Mystery Assessment

1. Why does your pupil get larger when the room is dark?
  - a. Your pupil gets larger so you can see better in the dark.
  - b. You do not have pupils.
  - c. Your pupil gets larger so you can sleep.
  - d. Your pupil does not get larger.
  
2. How do nocturnal animals see better in the dark than we can?
  - a. They sleep during the day.
  - b. Nocturnal animals' pupils get larger.
  - c. Nocturnal animals' see in the dark just like us.
  - d. Nocturnal animals' pupils get smaller.
  
3. Why does it sometimes look like people have red eyes when their picture is taken using a camera's flash?
  - a. It looks red because of the flash of the camera.
  - b. Eyes cannot turn red.
  - c. It looks red because people have blood at the back of their eye.
  - d. Human eyes do not have the ability to turn red.



# Day # 4



Name: \_\_\_\_\_ Week 8 Day 4 Date: \_\_\_\_\_

BCCS-B

Howard

Morehouse

Hampton

## Guided Notes: How does your brain control your body?

**The question:** Answer the following question with complete sentences.

How does your brain control your body? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Vocabulary:** Fill in the blank with the colored word from the PowerPoint presentation.

1. **Illusion:** something that \_\_\_\_\_ or \_\_\_\_\_ from what it is; something that is \_\_\_\_\_ or \_\_\_\_\_ but that seems to be true or real
2. **Sensory Nerves:** send \_\_\_\_\_ from the \_\_\_\_\_ to the brain
3. **Movement Nerves:** send \_\_\_\_\_ from the brain to the \_\_\_\_\_

**Video:** As Doug is teaching about the brain, take notes of things you feel is important and will help you to answer the mystery question, how does your brain control your body. When we get to a discussion question, be sure to take a moment to write down your response and wait in silent STAR until I ask for volunteers to answer the question.

Today we will be doing some mini experiments during the exploration video portion of today's lesson. Please ensure that you listen to the directions fully before trying the experiment out. I will demonstrate for you for one before you do it. So, make sure you are observing what to do.

**Exploration 1:** Notes- \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Exploration 2:** Roll your guided notes paper so you can look out of it like a spyglass with one eye. Put your paper to your eye. Keep both eyes open. Place your free hand in front of your free eye—keep both eyes open. Now move your hand so it is touching the paper down the paper until you see the hole in your hand.

**Exploration 3:** *Discuss*-Why did it look like there was a hole in your hand, any ideas? HINT: Try the experiment again. This time, find out what each eye sees by closing each eye one at a time (while keeping the other eye open.) \_\_\_\_\_

\_\_\_\_\_

**Exploration 4:** *Notes*-\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Exploration 5:** *Experiment*-Watch as one scholar reads the words out loud.

**Exploration 6:** *Experiment*-Watch as the same scholar now reads the color of the words.

What did you notice as he was doing this? \_\_\_\_\_

\_\_\_\_\_

**Exploration 7:** *Experiment*-Now you are going to try. With your neighbor, read the words out loud, one at a time. Then switch jobs.

**Exploration 8:** *Experiment*-Now listen as your partner says the COLOR of each word. Make sure they get them all right! Then switch jobs!

**Exploration 9:** *Discuss*-Which task was harder—reading the words or saying the colors? Why do you think that one was so hard to do? \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Exploration 10:** *Notes*-\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**EXIT TICKET:** Explain why it appeared there was a hole in your hand when you did the mini experiment. \_\_\_\_\_

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Why was it so difficult to make the switch from reading the words to saying the color of the words? \_\_\_\_\_

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